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8th Semi-Annual Report: The Early Action Compact for the San Antonio Region

December 2006

Prepared by the Alamo Area Council of Governments

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Abstract:

Protocol for the Early Action Compact (EAC) stipulates that areas participating in the compact will assess and report their progress against milestones every six months. This report contains the progress made towards the required milestones for the San Antonio EAC region (SAER) from July 2006 through December 2006. Several milestones were accomplished during this timeframe. Emission Inventory (EI) and modeling milestones include updated to the 2005 EI. geo-coding of these emissions, updates to the 1999 photochemical model base case, and emissions control strategy modeling. Progress of the Alamo Clean Air Partnership, Clean Cities, Adopt A School Bus program, and Transportation Emissions Reductions Measures (TERMs) projects met milestones for voluntary and State Implementation Plan (SIP) credit control strategies for the San Antonio region. Additional public outreach efforts include media related services, presentations, events, and the distribution of outreach materials. Maintenance of growth and air quality planning milestones were met in the SAER by continued efforts in emissions assessments and analysis of new strategy requirements, such as additional emissions reduction measures. Attached to this report are Appendices for Outreach Efforts, TERMs projects, a list of new major point source air permits in or around the EAC region, 2005 El progress, and a progress report regarding EAC milestone achievements.

Related Reports:	Distribution Statement:	Permanent File:
7 th Semi-Annual Report: The		The Natural Resources /
Early Action Compact for the		Transportation Department of
San Antonio Region		the Alamo Area Council of Governments

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Executive Summary

As required by the Early Action Compact (EAC), areas that are participating in this early voluntary 8-hour air quality planning process must assess and report their progress in achieving EAC milestones on a regular basis, through a public process, at least every six months or semi-annually. This document fulfills these requirements for the eighth semi-annual (July through December 2006) period for the San Antonio EAC region.

Emissions Inventory (EI) and modeling progress for the reporting period include continued development of the 2005 EI (as required for emissions trend analysis), updates to the 1999 photochemical model base case, and control strategy analyses. In meeting this milestone, emissions were estimated and geo-coded for the 2005 emissions inventory according to Environmental Protection Agency (EPA) approved methodologies. These emissions included area, nonroad, and military sources. In addition, methodologies were refined to include more local data and sources were added, as methodologies became available. Emissions control strategy modeling included analyses on plug-in hybrids and the use of a heavy-duty diesel vehicle (HDDV) anti-idling ordinance.

Continued progress of State Implementation Plan (SIP) creditable control strategies include progress in Transportation Emission Reduction Measures (TERMs) projects. The completion dates for TERMs projects have been updated or added where applicable. TERMs projects listed in the original March 2004 submission of the local revisions to the SIP were to be completed by December 31, 2007. The TERMs list will be reviewed on an ongoing basis to determine were new projects should be substituted for projects that will not be complete by December 31, 2007.

Voluntary control strategy development continues with progress marked by the Alamo Clean Cities (AACC) program, Alamo Adopt A School Bus program, and the Alamo Clean Air Partnership (ACAP) program. AACC staff conducted three "Slash Your Fuel Costs" workshops and supported other emission reduction events. The Clean Cities section also features information on the opening of E85 stations by HEB Grocery. The Alamo Area Council of Governments (AACOG) staff continued to promote the Alamo Adopt A School Bus program by presenting program information to the CENTEX Pupil Transportation Consortium in addition to school districts. Updates to the Green Patrol and the EPA Idle Reduction Pilot program are also given in this progress report. AACOG outreach staff continued to actively seek new partners for participation in the ACAP program. The partnership list now includes fifteen local entities dedicated to improving air quality in the San Antonio region. To streamline the ACAP application process, AACOG staff has designed the "Take Out Air Pollution" program. This program features a take-out like menu of pollution reduction options; based on the options selected by an applicant, staff can estimate the possible reductions of pollutants.

Public involvement and outreach continues to be an important component of the San Antonio regional Clean Air Plan. Air quality information is disseminated to the public through a variety of media categories -- newspaper, Internet, TV, and radio -- in order to reach as large and diverse an audience as possible. The public involvement milestone is also advanced through local programs and events in which the public is informed of air quality issues, health consequences, and measures that reduce air pollution. The highlights of public involvement and outreach in 2006 include the distribution of nearly 400 Air Quality Health Alert banners to area schools and innovations in the Commute Solutions program that are intended to increase the use of carpooling and other alternative modes of commuting.

Under the heading of Maintenance for Growth, local air quality planners are working to ensure the attainment of the eight-hour average ozone (8-hour ozone) National Ambient Air Quality Standard (NAAQS) by reviewing growth and emissions inventory patterns to determine the projected status of the region. At this time, it is unsure as to whether the SAER will be in attainment by the end of 2007. As specified in the New Strategy Requirements milestone, local air quality planners are investigation possible measures to ensure San Antonio reaches attainment. Maintenance of the ozone standards is important to operators of local industry, as well; several have proven receptive to planning suggestions that would aid local air quality improvement efforts.

The San Antonio region has successfully maintained steady progress in accomplishing EAC milestones from July to December 2006, ensuring proper development of the Clean Air Plan.

Chapter 1 - Introduction

The Early Action Compact protocol is designed to guide development and implementation of control strategies, including planning for near-term growth, in order to achieve and maintain the 8-hour ozone standard. This compact offers a timeline with a more rapid timeframe for achieving emission reductions than the EPA 8-hour implementation rulemaking¹, while providing "fail-safe" provisions for the area to revert to traditional nonattainment processes if specific milestones are not met. The EAC agreement signed by the EPA, the Texas Commission on Environmental Quality (TCEQ), and local elected officials is available online at: http://www.aacog.com/cap/.

As required by EAC guidance, areas participating in early voluntary 8-hour air quality plans must assess and report their progress in achieving EAC milestones in a regular, public process every six months. This document will fulfill the requirement for the eighth semi-annual progress report written for the San Antonio EAC.

The milestones in this report which are described in the EAC are:

- Completion of and updates to emissions inventories as outlined in section b), Emissions Inventory;
- Completion of and updates to modeling as outlined in section c), Modeling;
- Post-attainment demonstration and plan updates as outlined in section e), Maintenance for Growth;
- Continued public involvement in the planning process which will be conducted as outlined in section f), Public Involvement. This is in addition to the public reporting conducted at least once every six months, as outlined above.

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¹ Federal Register / Vol. 68, No. 105 / Monday, June 2, 2003 / Proposed Rules; 40 CFR Part 51; Proposed Rule To Implement the 8-Hour Ozone National Ambient Air Quality Standard; see "2. What Is the 'Early Action Compact' for Implementing the 8-Hour Ozone NAAQS," page 32859. Available online: http://www.epa.gov/fedrgstr/EPA-AIR/2003/June/Day-02/a13240.pdf

Chapter 2 – Early Action Compact Milestones

The Early Action Compact (EAC) specifies milestone requirements and delivery dates based on the EAC Memorandum of Agreement (MOA).² The milestones are addressed in the sections that follow.

2.1 Emissions Inventory Milestones

The ongoing analysis of emissions in the San Antonio EAC Region (SAER) is an essential element in the maintenance of the Emissions Trend Analysis milestone of the Clean Air Plan. AACOG staff continues to develop the 2005 EI and has calculated emissions estimates for many area and nonroad source categories during the 6-month reporting period of this report. These included:

Area Sources

- Asphalt Paving
- Asphalt Roofing
- Catastrophic/Accidental Releases
- > Commercial and Residential Gas Cans
- Dry Cleaners
- Fires
- Gasoline Distribution
- Gasoline Pipelines
 - & Pumping Stations (New Category)
- Graphic Arts
- Landfills
- Oil and Natural Gas Wells
- Remediation of Underground Storage Tanks
- Stationary Diesel Generators (New Category)
- Truck Idling (New Category)
- Wastewater

Nonroad Sources

- Agriculture Equipment
- Construction Equipment
- Railways

Airport/Military Sources

- Camp Bullis
- Fort Sam Houston

2.1.1 New Methodology for Area or Nonroad Source Emission Calculations

This section describes emission calculation methodology for any new categories that have been added since the AACOG 2002 El³ or existing categories for which the methodology has been improved upon.

Agricultural Pesticides (Methodology Refined)

A slight improvement was made to this category – determination of percentage of planted acreage on which the pesticide was applied. It is important to note that many "pesticides are applied as a band over the row and not the total area. For example, a herbicide may be sprayed in a 10 inch band on rows planted 40 inches apart - so the actual herbicide use would by 10/40 or about 25% of the planted acreage." Once the rates were converted, an average application rate was obtained per pesticide per acre. An emission factor per acre was calculated for both active ingredient per acre and for inert ingredient per acre by crop type.

² Chapter V. Early Action Compact Memorandum of Agreement (MOA); available online: http://www.aacog.com/cap/CAP2002.html#5

AACOG, 2002. "2002 Emissions Inventory for the 12 county AACOG Region" Available online: http://www.aacog.com/NaturalResources/2002_NET_El/default.htm
 Smith, Dudley, July 26, 2005 e-mail, "Ag practices Pesticides", Soil and Crop Sciences, Texas A&M

⁴ Smith, Dudley, July 26, 2005 e-mail, "Ag practices Pesticides", Soil and Crop Sciences, Texas A&M University

Dry Cleaners (Methodology Refined)

Dry Cleaners were surveys by phone for Bexar and surrounding counties to obtain the following information:

- 1. Is dry cleaning done at that facility or are the clothes taken to another facility?
- 2. If the clothes are taken to another facility, which facility?
- 3. What type(s) of chemical(s) are used to clean the clothes?

Gasoline Pipelines and Pumping Stations (New Category)

Location and miles of pipeline for each county were obtained from the Texas Railroad Commission (RRC). The numbers of valves, pump seals, fittings/flanges, and open-ended lines per county were determined. In addition, the local oil companies were surveyed to determine the number of pumping stations, pig receivers, and valves per mile of pipeline.

Truck Idling (New Category)

The main source for information on number and location of rest areas, picnic areas, and truck stops in the San Antonio region used for EI development was the website of the Texas Department of Transportation (TxDOT) Maintenance Division. The following sources were used to supplement the TxDOT source: Yahoo yellow pages, trucking industry web pages, facility managers, Texas Transportation Institute (TTI), and the Eastern Research Group (ERG) reports. These sources were also used to determine parking capacity, idling rate, and utilization rates of these Heavy Duty Diesel Vehicles (HDDV) facilities. Field observations by ERG subcontractor, Alliance Transportation Group (ATG), were used to determine temporal allocations for occupancy rates and idling rates. The EPA recommended a 135 g/hr NOx emission factor (EF) and a 42.3 g/hr VOC EF for Class 8 truck idling.⁵

Fires (Methodology Refined)

Data on Structural and Vehicle fires was obtained from the State Fire Marshall, Texas Dept. of Insurance. For open burning refuse (residential and commercial), the EPA 2002 NET EI methodology was applied. For open burning vegetation and agricultural field burning data, University of Texas at Austin (UT) results from the "Inventory of Air Pollutant Emissions Associated with Forest, Grassland, and Agricultural Burning in Texas" was used.

Stationary Diesel Generators (New Category)

Stationary diesel generators have a wide range of hours of operation based on the capacity of the generator: emergency, peak, or baseload capacity; capacity type was determined first. The NorthEast States for Coordinated Air Use Management (NESCAUM) for EPA study⁶ was utilized for the allocation of generators by county. To calculate capacity by county, a population to generator ratio was determined (generator capacity for each capacity category divided by the total generator population). To calculate emissions, the population to generator ratio was multiplied by the population of each AACOG county for 2005; and generators were divided into kW ranges.

Residential Lawn and Garden Equipment (Methodology Refined)

Ipsos-Insight was contracted to conduct a Computer-Assisted Telephone Interviewing (CATI) survey with 18+ year-old household members residing within the 12-county AACOG region. Ipsos-Insight also determined residential Lawn & Garden usage rates from the data gather through this survey.

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⁵ Chris Kite of TCEQ: results of testing exhaust emissions from five Class 8 trucks presented in a report entitled "Particulate Matter and Aldehyde Emissions from Idling Heavy-Duty Diesel Trucks"

⁶ NESCAUM, June 2003. "Stationary Diesel Engines in the Northeast: An Initial Assessment of the Regional Population, Control Technology Options and Air Quality Policy Issues"

Boating Emissions (Methodology Refined)

Boating emissions methodology was updated to reflect emissions allocations based on navigable waterways in Texas. This approach utilized ERG methodology⁷ to determine which lakes in Texas were navigable. There were several updates to EGR methodology to determine navigable waterways including the additional of two counties along the Texas coast (San Patricio and Jefferson County). Lake acreage was also updated including the additional of several lakes in the AACOG region.

2.2 Modeling Milestones

The photochemical model is a valuable tool available to air quality planners interested in understanding and reducing ground-level ozone concentrations. The photochemical model is a computer simulation of the formation and movement of ground-level ozone. Performing ongoing modeling updates ensures that planners have the most accurate modeling data required for air quality planning activities. These updates may come in the form of refinements to past emissions inventories, creation of new emissions inventories for more recent years than the inventories used in past episodes, and continuing updates to the Conceptual Model.

2.2.1 Photochemical Model Updates

The 1999 photochemical model base case updates include the geo-coding of 2005 EI emissions; Appendix E contains the schedule for 2005 EI emission source geo-coding. The sources that were geo-coded during the July – December 2006 reporting period include the following:

- Auto Body Shops
- Bakeries
- Diesel Lawn & Garden Equipment: Golf Courses
- Diesel Lawn & Garden Equipment: Public Schools
- Gasoline: Aboveground Storage Tanks (AST)
- Gasoline: Underground Storage Tanks (UST)
- Graphic Arts
- Landfill Equipment
- Landfills: Open & Closed
- Natural Gas Compressors: Oil Wells
- Oil Wells
- Surface Coating
- Truck Idling
- Vehicle Refueling: Service Stations
- Wastewater Facilities

Truck Idling

A large portion of truck idling emissions occurs at night; thus, a temporal adjustment was made for use in the photochemical model. Figure 1 shows the hourly distribution of total daily NOx and VOC emissions from idling trucks. As it is indicated the emissions of VOC and NOx are flat during the daytime, reaching peak levels by 10:00 PM. These levels continue through the night until 4:00 AM, gradually reducing during the morning hours of the next day. Figure 2 shows the estimated effect truck idling emissions had on ozone concentrations at CAMS 23 and CAMS 58.

⁷ ERG, August 28, 2002. "Recreational Marine Emissions Inventory"

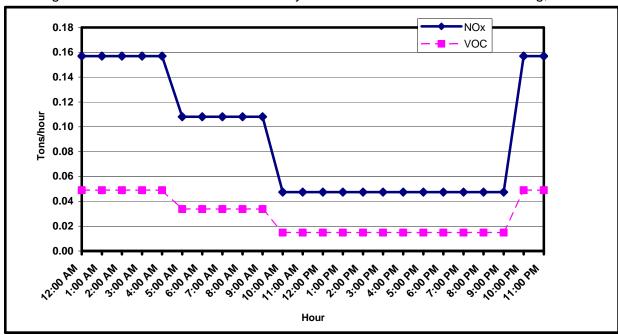
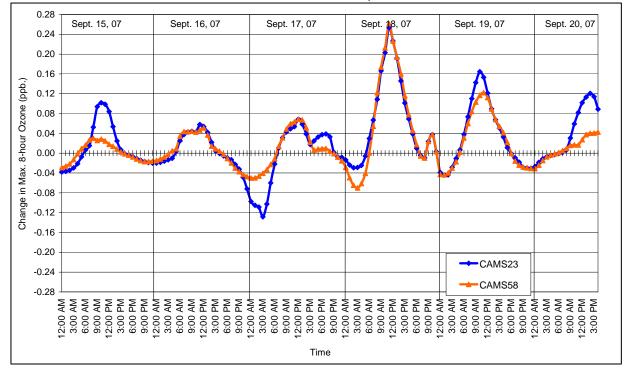


Figure 1. AACOG VOC and NOx Hourly Emissions Estimated for Truck Idling, 2005

Figure 2. Maximum Estimated Impacts of Truck Idling on Ozone Concentrations at CAMS 23 & CAMS 58, 2005



2.2.2 Emissions Control Strategy Modeling

The AIR Executive/Advisory committees requested that several emissions control strategies be analyzed for possible reductions of 8-hr average ozone levels in the SAER. These strategies

included the use of plug-in hybrids and a heavy-duty diesel idling ordinance. Both strategies were analyzed through the use of photochemical modeling.

Plug-In Hybrids

Photochemical modeling was performed to analyze possible reductions from the use of plug-in hybrids. The study was based on emissions from 100,000 on-road vehicles (light-duty gas vehicle or equivalent) added to the modeling EI as compared to emissions from 100,00 plug-in hybrids added to the modeling EI. The same methodology was used to compare traditional hybrids to the plug-in hybrids, as well. The analysis compared results of emissions from an average vehicle to those of plug-in hybrids and emissions from traditional hybrids to those of plug-in hybrids. The results to the latter comparison are listed in Table 1.

• ,		, ,	, ,
Continuous Air Monitoring Stations (CAMS)	2007 DV w/Hybrid (ppb)	2007 DV w/Plug-in Hybrid (ppb)	Difference (ppb)
CAMS 23	84.282	84.278	-0.004
CAMS 58	81.979	81.971	-0.008

Table 1. Design Value (DV) Comparison: Average Vehicle, Hybrid, & Plug-in Hybrid

The AIR Executive/Advisory committees and the City of San Antonio passed resolutions supporting plug-in Hybrids. "A PHEV combines today's new hybrid technology with added battery capacity to achieve a greater all-electric operating range. The battery pack can be recharged by plugging into an ordinary home or business outlet. When a travel range is needed that exceeds the capacity of the battery pack, the automobile operates on gasoline or biofuels."

Heavy Duty Diesel Idling Ordinance

An anti-idling rule of HDDVs would prohibit idling a heavy-duty motor vehicles for more than five to ten consecutive minutes when the vehicle is not in motion, unless the driver is using the engine to heat or cool a sleeper berth while taking a federally mandated rest break. This measure is aimed to reduce emissions of toxics and criteria pollutants by limiting short-duration idling. The analysis was based on reducing the short-duration idling by HDVs to five minutes per each stop: cargo destinations, lunch breaks, checking of vehicle, etc. Long-haul trucks would be excluded from the rule while taking a federally mandated rest break.

2.3 Control Strategy Development Milestones

Enforceable state control strategies were put in place under the Early Action Compact at the request of local elected officials. The regional leadership is interested in ensuring that the greatest emissions reductions available through these measures are obtained. Efforts continue to verify that SIP creditable strategies are implemented as stated within the SIP.

In addition to control measures for which SIP credit can be obtained, *voluntary strategies* are also promoted and implemented in the San Antonio region. AACOG staff continues to encourage the adoption of voluntary measures through such programs as Commute Solutions, Clean Cities, and the Alamo Clean Air Partnership.

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⁸ Quote from *Plug-In Partners National Campaign*

2.3.1 Alamo Area Clean Cities

Through the Alamo Area Clean Cities (AACC) program, technical and outreach assistance is provided for alternative fuels and Clean Cities technologies (fuel blends, idle reduction technologies, hybrids, and fuel economy) to fleet operators in the San Antonio Early Action Compact Region. During the six-month reporting period, June – December 2006, AACC hosted a stakeholder meeting, on August 10, 2006, and supported a number of events including these highlighted below:

"Slash Your Fuel Costs" Workshop Series

AACC staff partnered with representatives from the Texas State Energy Conservation Office and the Texas Railroad Commission (RRC) to provide a workshop series for stakeholders. The "Slash Your Fuel Costs" workshop series consisted of four workshops addressing alternative fuels and fuel economy practices. Franz Hofmann, Lead Automotive Technician from the RRC, provided the workshop content.

H-E-B Grocery Opens E85 Station

H-E-B Grocery debuted an E85 dispenser at the H-E-B Grocery Store off of I-35 and FM 3009 in north Bexar County on August 16, 2006. H-E-B announced that the E85 would sell for thirty cents less than gasoline as a commitment to providing clean burning fuels to the citizens of South Texas. H-E-B is a proud member of the Clean Cities Coalition as well as the sole charter member of the Alamo Clean Air Partnership.

Hybrid Taxi Initiative

The AACC coordinator and other AACOG staff met with City of San Antonio officials to provide support promoting the use of hybrid-electric vehicles as taxes. Due to wheelbase restrictions for taxes servicing the San Antonio International Airport, most owner operators did not consider hybrids viable options for use as taxi vehicles. Thanks to the efforts of the City Council people and others the wheelbase restriction was rescinded in the latter half of 2006.

2.3.2 Alamo Adopt A School Bus

AACOG staff promotes and coordinates the Alamo Adopt A School Bus (AASB) program, a cooperative partnership established to aid school districts in replacing their aging school bus fleets with new "clean fuel" buses. Achieving this goal requires educating school districts and corporations about the benefits of replacing older diesel buses with lower emission "clean fuel" buses. Efforts to reduce school bus emissions could also involve the combination of replacing and retrofitting buses with new technology to achieve NO_x and PM reductions and the possible use of low-sulfur fuel.

CENTEX Pupil Transportation Consortium

During the 6-month reporting period, AACOG staff provided AASB program presentations to the CENTEX Pupil Transportation Consortium in addition to the school districts. The Consortium is comprised of transportation directors of school districts in the Alamo and Austin regions.

Green Patrol

Green Patrol is an idle reduction program that encourages parents and bus drivers to refrain from idling their vehicle engines for extended periods while dropping off and picking up school students. The AASB staff is coordinating a pilot program of the Green Patrol with Camelot Elementary in Bexar County; the pilot program began on September 20, 2006. An assessment of the baseline emissions was established and another assessment will be conducted at the end of the pilot program to determine the success of the project.

EPA Idle Reduction Pilot Program

Alamo AASB program was part of a pilot program administered by the EPA to evaluate the effectiveness of idle reduction materials created for schoolteachers and school bus drivers. Teachers and drivers from Edgewood ISD in Bexar County participated in the program; a presentation was provided for transportation staff and school bus drivers regarding the benefits of reducing unnecessary idling.

Central Texas/Alamo Area Biodiesel Workshop

Alamo AASB staff collaborated with staff from Central Texas Clean Cities, Central Texas AASB, and Alamo Area Clean Cities to provide a biodiesel workshop for transportation directors in the Alamo and Central Texas regions. Austin Biodiesel representatives helped sponsor the event.

2.3.3 Alamo Clean Air Partnership

The Alamo Clean Air Partnership (ACAP) program continues to serve as the air quality outreach vehicle for San Antonio area employers. The program was created to encourage public and private businesses and agencies to voluntarily reduce their air pollution emissions. Air pollution reduction measures implemented by current partners affect a wide range of on-road, non-road, and point sources.

The primary focus of ACAP during the July through December 2006 period has been to increase participation in the program by meeting one-on-one with industry leaders as well as working through business associations, such as the San Antonio Manufacturers Association. During the latter half of 2006, a new campaign was launched to promote the ACAP program and simplify the membership process, as described below.

Take Out Air Pollution

This new program, features a simple "TakeOut Menu" that lists measures any organization can implement to reduce air pollution. Examples of TakeOut menu items include energy conservation and employee carpool programs. Organizations participate in the campaign by implementing one or more measures listed in the TakeOut menu. The organization is asked to contact AACOG with information on their TakeOut program. AACOG staff quantifies these programs in terms of emission reductions and adds the information to the voluntary emission reduction database.

Current ACAP Members:

- ➤ H-E-B Grocery Company
- City of San Antonio
- Raba-Kistner Consultants, Inc.
- > San Antonio Water System
- ➤ USAA
- Valero Energy Corporation
- CPS Energy
- Harlandale ISD
- > San Antonio-Bexar County Metropolitan Planning Organization
- San Antonio College
- San Antonio Express-News
- Texas Department of Transportation, San Antonio District
- University of Texas at San Antonio
- > Alamo Area Council of Governments
- VIA Metropolitan Transit

2.3.4 Texas Emission Reduction Plan

AACOG staff continues to vigorously promote the Texas Emissions Reduction Plan (TERP), created in 2001 by Texas Senate Bill 5. When finalizing the local revisions to the SIP, in compliance with the EAC, local elected officials requested a 2-ton per day reduction of NOx emissions in the 4-county SAER through local TERP projects. The state is currently not soliciting applications from the San Antonio area because the state has successfully provided the level of funding required for the region to meet the 2.0 tpd NOx emissions reduction target.

2.3.5 Transportation Emission Reduction Measures (TERMs)

TERMs projects include projects listed on the San Antonio/Bexar County Metropolitan Planning Organization's Transportation Improvement Program (TIP) and projects sponsored by local governments that are not federally funded. The projects, which qualify as TERMs projects, aim to reduce congestion and/or the number of trips made by vehicles, ultimately improving the air quality by reducing emissions. These projects have completion dates scheduled from 1999 through 2007.

However, the completion of **some** TERMs projects is not anticipated by Dec. 2007. Projects such as these have progressed slowly due to external influences (changes in construction plans, etc.). The EPA has accounted for these external influences by allowing substitute projects to replace the slower moving ones. Substitute projects are projects that were not on the original list approved for SIP credit and are scheduled for completion prior to Dec. 31, 2007. **Substitutions for the projects not completed by December 2007 listed in Appendix B will be determined during a continuing evaluation process.**

Table 2. TERMs Project Completion Status; Estimates as of December 2006

Project Completion Status	Number of Projects	NOx (lbs/day)	VOC (lbs/day)
Completed	282	338.987	878.413
2007 Completion Dates	7	3.270	9.790
Completion Dates Unknown	32	27.518	62.542
Completion Dates Post 2007	11	50.961*	144.440*

^{*}Substitutes must be found for these projects with equivalent or greater reductions

2.4 Maintenance for Growth Milestones

Assurance of the air quality situation in Maintenance Year 2012 is a vital aspect of the ongoing planning activities by stakeholders in the EAC for the San Antonio region. Accomplishing this milestone is essential and would indicate that the efforts of the stakeholders in the SAER were successful.

2.4.1 Updating the Planning Process

Various stages of planning and verification must be performed on a continual basis to ensure timely emission reductions for the region to maintain air quality standards. The impacts of new point source related emissions, economic and population growth, and the implementation of new control strategies are evaluated during the air quality modeling process.

2.4.2 SIP Control Strategy Implementation

Appendix D lists progress achieved in implementation of the San Antonio EAC region control strategies. The table lists by measure, description, status, implementation date, and NOx and VOC reductions. The only control strategy that remains to be fully implemented is TERMs. The TERMs projects were scheduled for full implementation by December 2007; that is, all TERMs projects were originally to be completed by the end of December 2007. As discussed in section

2.3.5 of this chapter, some TERMs projects now have implementation dates close to the end of 2007 or later, Appendix B Table IV.

2.4.3 New Issues & Questions

An increase in state air permit applications by the cement, electrical generation, and petroleum refinery industries in Texas occurred during the first several months of 2006. Investigations continue by AACOG and other air quality staff of both near nonattainment and nonattainment areas of the state to determine the potential impacts of such industrial growth.

Local cement manufacturers have expressed a continued willingness to work with regional air quality planners to develop changes or adjustments to their operations to benefit air quality planning. AACOG is eagerly working with the industry to determine the most cost-effective measures to be employed on the widest scale possible, either within industry or in the community at large, to assist efforts to regain full attainment status. Appendix C contains the list of sources, which AACOG staff will continually check for increase/decrease of emissions and ozone due to new/closing plants, expansions/downsizing at existing plants, or the implementation of emission controls.

2.4.4 New Strategy Requirements

At this time, review of growth and emissions inventory patterns may support a call for additional measures enacted locally. The AIR committees and the City of San Antonio as well as other entities are investigating potential measures that could be implemented locally. Some of these measures include:

- ➤ Heavy duty diesel truck anti-idling ordinance (section 2.2.2 of this report)
- Voluntary measures taken by point source permit applicants to offset additional emissions
- > Smoking vehicle rule ticket smoking vehicles
- Hybrid taxis
- Hybrid or alternative city/county fleets
- Cleaner fuel school buses (section 2.3.2 of this report)
- > AQHA banner initiative (section 2.5.2 of this report)

2.5 Public Involvement Milestones

Educating the public about the importance of the region's air quality continues to be a crucial effort for the Clean Air Plan. Outreach and education efforts continue within the SAER, often through partnerships with other governmental entities and industrial leaders in the area. As the Clean Air Plan is developed, citizens and citizen groups are given the opportunity to be involved in the Clean Air Plan development process.

2.5.1 Media

During the second half of 2006, AACOG partnered with a number of agencies and companies to conduct press conferences that focused on such issues as Air Quality in the San Antonio area; the Walk & Roll Challenge; and alternative commuting (e.g., carpooling, riding the bus, and walking).

Air Quality Health Alert (AQHA) Program

AACOG ensures the AQHA program is broadcast to as large an audience as possible by working with media partners to distribute AQHA announcements by television, radio, newspaper, and media websites. During the 2006 Ozone Season, the AQHA notifications were received and distributed by seven television stations, twenty-six radio stations, and five newspapers. In 2006, AACOG also partnered with SCAN USA to distribute the AQHA through more outlets (e.g. text messaging).

Air Quality Education Via Media

Local media aired educational segments in which AACOG staff participated. The topics of these segments included: San Antonio regional air quality and measures the public can take to reduce air pollution from the vehicles they drive. In addition, there were a number of radio and newspaper interviews printed and aired during the six-month reporting period, Appendix A.

Other Media Efforts

Between July and December, 2006 there were 3 press releases, 2 press conferences, and an air quality advertising campaign that aired on 4 radio stations and 1 television station through the end of the ozone season. There were also media-sponsored health events, where air quality outreach materials were distributed, and radio/television/newspaper announcements regarding the Walk & Roll Challenge.

2.5.2 Other Outreach Efforts

Non-media related outreach efforts continue. From July through December 2006, a number of governmental, private, school, and/or civic group presentations were provided, Appendix A. Such events allow AACOG staff to educate citizens on how everyday actions contribute to air pollution and how alternate methods of doing the same tasks can help reduce emissions.

Councilman Christopher "Chip" Haass AQHA Banner Initiative

City of San Antonio Councilman Chip Haass' initiative gave the AQHA banner program a boost by offering to purchase banners for San Antonio area schools, if they agree to hang the banner outside on AQHA days. Each San Antonio school district and the Archdiocese for Catholic Schools have received AQHA banners and program materials (such as the Ozone 101 School Toolkit), totaling nearly 400 banners and toolkits distributed. The toolkit explains ozone pollution and its effects on children and highlights the available AACOG Outreach programs and services.

Air Quality Materials and Information Distribution

To increase awareness of air quality topics among the general public, AACOG distributes thousands of brochures, booklets, flyers, and promotional items developed by AACOG or given to AACOG for distribution by other organizations or agencies. These distributions are listed in Appendix A under the header "Informational Materials and Distributions for All Outreach Efforts through AACOG." Additionally, AACOG maintains an air quality website, which is updated weekly and provides a wealth of information on air quality issues. Websites relating to air quality issues or containing air quality information in the San Antonio EAC region are listed in Appendix A, under the header: Websites for Public Viewing.

Commute Solutions Program

The Commute Solutions program is designed to reduce the number of single occupancy vehicles (SOVs) by promoting alternative forms of transportation, such as RideSharing (carpooling, vanpooling, & SchoolPooling), Bike Buddies, and Walking School Bus (WSB). Below is the current list of organizations participating in the program's RideShare matching services. The names in *italic bold* indicate those that have made requests for matches within the July – December 2006 reporting period.

Carpooling:

- CPS Energy
- Northwest Vista College
- Southwest Research Institute
- Bexar County
- AACOG

- Standard Aero
- First Health
- Lackland AFB
- San Antonio Water System (SAWS)
- City of San Antonio (COSA)

SchoolPool & Walking School Bus (indicated as "WSB, too" below)

- Northeast School of Arts
- International School of the Americas
- San Antonio PREP & EDGE (summer only)
- Candlewood Elementary (WSB, too)
- Evers Elementary (WSB, too)
- Encino Park Elementary

Environmental Stewardship Awards

In December 2006, the AACOG outreach team recognized several program participants for their commitment voluntary control strategies aimed at reducing emissions stemming from employee/patron activities. The awards went to the following participants:

- Candlewood Elementary Walking School bus program & SchoolPool (since 2003)
- ➤ Northeast School of Arts SchoolPool program (since 2003)
- > San Antonio PREP SchoolPool program (since 2004)
- Edgewood ISD Idle Reduction program
 - o Implemented No Idle policy (after attending the Corporate Challenge Officer Rally
 - o Reworked bus routes to increased efficiency and minimize miles traveled)
 - Participated in AACOG anti-idling workshop
 - Pursuing grant funding to purchase cleaner running buses
- Harlandale ISD Innovative changes to reduce driving time per each employee
 - ISD Police Dept. implemented the use of bicycle patrols
 - Rearranged employee schedules to combine shifts for carpooling use
 - Rearranged employee schedules so one vehicle can be used to transport employees between different district locations
- Bexar County

The Commute Solutions staff is working on a faster and more efficient matching process. The development of a real-time matching system is currently underway; this would enable participants to logon with their information to receive matches immediately. Goals for 2007 also include launching an employee rideshare incentives package; employees would be awarded points for every carpool trip to be cashed in for gift cards.

2.5.3 Public Meetings/Clean Air Plan Workshops

In accordance with the EAC, the public has opportunities to participate with the ongoing development of the Clean Air plan in order to familiarize themselves with the process and goals of the project. The regularly scheduled bi-monthly meetings of the AIR Executive Committee, the planning committee for air quality planning under the Early Action Compact in the San Antonio region, are open to the public and always have a Citizens to Be Heard agenda item. Additional exposure to the project is expressly provided to the public through other meetings and workshops. This is achieved through the hosting of Clean Air Plan Workshops, which are called to discuss special topics with dates and times based on feedback from the public and scheduled typically on workweek evenings alternating with Saturday mornings. These workshops, in addition to all the regularly scheduled Air Improvement Resources (AIR) Executive/Advisory Committee meetings, provide a solid basis for public education, process access and comment.

Chapter 3 - Conclusion

The San Antonio EAC region has successfully maintained steady progress in accomplishing EAC milestones and ensuring proper development of the Clean Air Plan. Completion of the milestones included appropriate participation of stakeholders in the air quality planning process, ongoing development and research of potential control strategies (to include voluntary strategies), provisions for public participation in the development of the Clean Air Plan, and continued development of technical activities and testing of model performance. Accomplishing these milestones allowed efficient development of the Attainment Demonstration and enhanced confidence in the validity of its technical data.

The San Antonio EAC region remains compliant with the prescribed milestones as given by the *Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard.*⁹ The region will continue to comply with the milestones as required.

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⁹ The "Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard" is available online as http://www.epa.gov/ttn/naaqs/ozone/eac/20020619_eac_protocol.pdf

July 1, 2006 through December 31, 2006

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Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Weather Forcast	Air Quality Health Alert (AQHA)	WOAI TV KENS TV KSAT TV FOX News	08/19/06 08/31/06 09/01/06 09/7-8/06 09/14/06	General Public
Interview (KENS)	Air Quality Morning News	Brenda Williams, AACOG	7/1/06	General Public

2. Radio

Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Weather Forcast	AQHA	KTSA-radio WOAI-radio KSYM Radio Texas Public Radio BBN Radio Station KYFS	08/19/06 08/31/06 09/01/06 09/7-8/06 09/14/06	General Public
Interview (KAHL)	Air Quality	Brenda Williams, AACOG Rosa Rsales, KAHL	7/6/2006	General Public
Interview (WOAI)	Air Quality & Carpooling	Brenda Williams, AACOG Bud Little, WOAI	8/17/2006	General Public
Interview (TPR)	Air Quality in Region	Abra Schnur, TPR Amber Mayne, AACOG	9/25/2006	TPR Listeners
Interview (KSJL)	Air Quality & W&R Challenge	Peter Bella, AACOG Matari Jones, Community Focus, KSJL	10/5/2006	KSJL Listeners

3. Newspaper & Internet

Source	Title of article	Contact Persons w/Organizations	Date	Target Audience
Article: SA express News	"Bad-air days now may come back to haunt us in '08"	Renee Green, Bexar County Anton Caputo, SA Express-News	7/1/2006	General Public
Article: SA Business Journel	"Sweetening the fuel market"	Isabel Martinez, AACOG Lisa Sorg, SA-based free-lance writer	8/25/2006	Businesses
Article: SA express News	"Walk & Roll Challenge is geared at getting commuters out of cars"	Al Notzon, AACOG Patrick Driscoll, SA Express-News	10/5/2006	General Public

4. Governmental, Civic, or Private Group **Type of Outreach Subject Contact Persons w/Organizations Target Audience** Date Kenedy Rotary Club 7/25/2006 Rotary Club members Presentation Brenda Williams, AACOG Heather Willden, AACOG SAWS Brown Bag 8/3/2006 SAWS Employees Presentation Debra Engler, SAWS Presentation SAMA Environmental Committee Brenda Williams, AACOG 9/15/2006 Manufacturers NEISD Transportation Dept. #1 11/14/2006 **NEISD School Bus Drivers** Presentation Heather Willden AACOG NEISD Transportation Dept. #2 Heather Willden AACOG Presentation 11/14/2006 **NEISD School Bus Drivers** Heather Willden AACOG NEISD Transportation Dept. #3 11/15/2006 **NEISD School Bus Drivers** Presentation NEISD Transportation Dept. #4 Heather Willden AACOG 11/15/2006 **NEISD School Bus Drivers** Presentation

5. School - Related Education

Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Presentation	AQHA Banners	Brenda Williams, AACOG Isabel Martinez, AACOG Heather Willden, AACOG Harvey Manning, Judson ISD	7/24/2006	Judson ISD Admin
Event	Candlewood Elementary Meet the Teacher Night	Amber Mayne, AACOG Heather Willden, AACOG	8/11/2006	Candlewood parents, students, teachers
Presentation	AQHA Banners	Brenda Williams, AACOG Isabel Martinez, AACOG Amber Mayne, AACOG Heather Willden, AACOG Becky Rendon, NEISD	8/4/2006	NEISD Nurses
Drop-Off	Air Quality Materials	Isabel Martinez, AACOG Heather Willden, AACOG	8/25/2006	Students/Faculty
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	8/29/2006	NEISD Nurses
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	8/29/2006	NISD Nurses
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	8/31/2006	ECISD Nurses
Drop-Off	AQHA Program Materials	Isabel Martinez, AACOG	9/1/2006	EISD Administration (transportation)
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	SWISD Nurses
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	SAISD Nurses
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	Harlandale ISD Nurses
Drop-Off	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	Archdiocese for Catholic Schools
Event	Alamo Regional Academy of Science and Engineering	Heather Willden, AACOG Amber Mayne, AACOG Georgia Zannaras, AACOG	9/23/2006	Teachers, Parents, Students
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	Colonial Hills Elementary students/teachers

5. School - Related Education (Cont.)

Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	Schertz Elementary students/teachers
Event	Air Quality and Student Health	Heather Willden, AACOG	9/26/2006	SAISD District-Level PTA Mtg. (Tafolla MS) Teachers, Students, Parents
Presentation	Air Quality & Commute Solutions for Schools	Heather Willden, AACOG Amber Mayne, AACOG	10/4/2006	Encino Park Elementary parents
Drop-Off	Commute Solutions for Schools (SCHOOLPOOL/WALKING SCHOOL BUS)	Amber Mayne, AACOG	10/5/2006	Encino Park Elementary
Pick-up	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	Fort Sam Houson ISD
Mailing	AQHA Program Materials	Heather Willden, AACOG	9/6/2006	Lackland AFB ISD
Event	STAC Workshop for School Nurses	Heather Willden, AACOG	10/14/2006	School Nurses/Respiratory Therapists
Mailing	Curriculum Kits	Isabel Gonzales, AACOG Heather Willden, AACOG	10/18/2006	Teachers, Air Quality Education Specialists
Presentation	Safe Routes to School @ Villareal Elementary (SchoolPool/Walking School Bus)	Amber Mayne, AACOG	10/24/2006	Parents, School Admin
Presentation	School Traffic Safety Summit (Downtown Public Library)	Amber Mayne, AACOG	10/27/2006	School District Admin, Transportation
Presentation	NW Homeschool Group	Heather Willden, AACOG	11/14/2006	Children

6. Events & Public Meetings

Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Public Meeting	RMA Quadrant Mtg. (Holmes High School)	Heather Willden, AACOG	7/11/2006	General Public
Public Meeting	RMA Quadrant Mtg. (COSA Toolyard)	Heather Willden, AACOG	8/2/2006	General Public
Event	Seguin Health Fair	Brenda Williams, AACOG Amber Mayne, AACOG	8/9/2006	Seguin Parents/Students
Public Meeting	RMA Quadrant Mtg. St. Philip's)	Heather Willden, AACOG	8/15/2006	General Public
Public Meeting	RMA Quadrant Mtg. (UTSA)	Amber Mayne, AACOG Heather Willden, AACOG	8/22/2006	General Public
Drop-Off	Government Canyon State Park	Amber Mayne, AACOG	8/30/2006	General Public
Drop-Off	Missions Historical Park	Amber Mayne, AACOG	9/6/2006	General Public
Event	NRC Conf.	Amber Mayne, AACOG	9/9/2006	General Public

6. Events & Public Meetings (Cont.)

Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience
Public Meeting	RMA Quadrant Mtg. (South San Antonio HS)	Heather Willden, AACOG	9/12/2006	General Public
Public Meeting	MPO Traffic safety and solutions workshop	Amber Mayne, AACOG	9/19/2006	General Public
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	UTHSC
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	MHS Health
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	Pulmonary Function Lab
Mailing	Effects of Common Air Pollutants posters	Heather Willden, AACOG	9/26/2006	Building Blocks Pediatrics (Display in offices and Atascosa Count Schools)
Event	National Public Lands Day	Heather Willden, AACOG	9/30/2006	General Public, Olmos Basin Park
Event	Boy Scout Camp-O-Ree	Isabel Martinez, AACOG Heather Willden, AACOG	9/30/2006	Boys, Middle and High school age
Event	City Year Environmental Day	Georgia Zannaras, AACOG Brenda Williams, AACOG	9/30/2006	Students/Families
Event	Air Quality/Car Care/Walk & Roll Challenge KTFM/KLEY dual Remote	Amber Mayne, AACOG	10/6/2006	General Public
Event	Air Quality & Asthma Asthma Coalition of Texas Conference	Heather Willden, AACOG	10/12-13/06	Conference attendees, Hotel patrons
Event	Audubon society plant sale & Wildlife Festival (Mitchell Lake)	Brenda Williams, AACOG Georgia Zannaras, AACOG Isabel Gonzales, AACOG Heather Willden, AACOG	10/14/2006	General Public
Event	Hispanic Health Fair (Alamodome)	Brenda Williams, AACOG Isabel Gonzales, AACOG Heather Willden, AACOG	10/15/2006	General Public
Mailing	Air Quality materials, including Effects of Common Air Pollutants posters	Heather Willden, AACOG	10/16/2006	Lackland AFB
Drop-Off	3rd Annual SafePlace Event	Heather Willden, AACOG	10/21/2006	women that are residence of the SafePla safe house (Kids)
Event	Bike Expo @ Calaveras Lake	Brenda Williams, AACOG Heather Willden, AACOG	10/21/2006	Middle & High School age students
Drop-Off	COSA Community Center Materials for upcoming event	Heather Willden, AACOG	10/25/2006	General Public (Children)

6. Events & Public	Meetings (Cont.)					
Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience		
Event	District 3 Family Services & Community Fair	Amber Mayne, AACOG Heather Willden, AACOG	10/28/2006	General Public		
Event	Edgewood ISD Health Fair	Heather Willden, AACOG	11/4/2006	General Public		
Event	Harcourt Environmental Day	Brenda Williams, AACOG Heather Willden, AACOG	11/10/2006	Harcourt Employees		
Event	District 10 Fall Festival	Brenda Williams, AACOG Heather Willden, AACOG	11/11/2006	General Public		
Event	GIS Day Professionals	Amber Mayne, AACOG	11/14/2006	General Public		
Event	GIS Day Students	Amber Mayne, AACOG Parviz Nazeem, AACOG Steven Smeltzer, AACOG	11/15/2006	General Public (Students)		
Event	Texas Recycles Day	Georgia Zannaras, AACOG Brenda Williams, AACOG	11/15/2006	Students		
Event	Christmas Along the Corridor - Pony Express Ride	Amber Mayne, AACOG Brenda Williams, AACOG	12/2/2006	General Public		
. Press Items and	d Proclamations					
Type of Outreach	Subject	Contact Persons w/Organizations	Date	Target Audience		
Press Conference	W&R Corporate Challenge Winner Cup Presentation	Brenda Williams, AACOG Heather Willden, AACOG Gwen Schuler, COSA	7/19/2006	Challenge Participants General Public		
PSA	W&R Challenge Kickoff	Heather Willden, AACOG Amber Mayne, AACOG KJ97 & TPR	10/3/2006	General Public		
Press Conference	W&R Challenge Kickoff	Heather Willden, AACOG Brenda Williams, AACOG Tiffany Pickens, AACOG	10/3/2006	Media, Participating Organizations Reps		
News Release	POLLUTION REDUCTION: SAN ANTONIO SHEDS 200 LBS Walk & Roll Challenge Participants Log Over 58,000 Smart Miles; Reducing Over 200 lbs of Air Pollution	Heather Willden, AACOG	11/28/2006	General Public		
. Website for Public Viewing						
Agency/Company	Site Name	How It Relates	URL			
AACOG	Air Quality	AQ Info		http://www.aacog.com/air/		
	,					

3. Website for Public Viewing (Cont.)						
Agency/Company	Site Name	How It Relates	URL			
AACOG	Commute Solutions	Reducing SOVs	http://www.aacog.com/commutesolutions/			
AACOG	Adopt-a-School Bus	Reduce pollution from school buses	http://www.aacog.com/schoolbus/			
AACOG	TERP	Grants for use of pollution reduction technologies	http://www.aacog.com/terp/			
AACOG	ACAP	Buisiness community commitment to AQ	http://www.aacog.com/acap/			
AACOG	Walk & Roll Challenge	Month-long challenge promoting walking, biking, carpooling/vanpooling, and busing	http://www.walkandrollchallenge.com/			
AACOG	Clean Cities	Promotes alternative fuels	http://www.aacog.com/cleancities			
AACOG	Kids Zone	Links and fun activites about AQ for kids	http://www.aacog.com/aboutaacog/kidszone/			
AACOG	Clean Air Plan	Posting of the Clean Air Plan for SA region	http://www.aacog.com/cap/			
AACOG	Cleaner Texas Cleaner World		http://www.aacog.com/air/cleantexas/cleantexas.asp			
AACOG	Conceptual Model	Posting of report	http://www.aacog.com/naturalresources/cm/042705_Conc Model2004.pdf			
		Posting of San Antonio region air El for 1996	http://www.aacog.com/naturalresources/1996%20Emissions%20Inventory/1996EL TOC.html			
AACOG	Emission Inventories	Posting of San Antonio region air El for 1999	http://www.aacog.com/naturalresources/1999%20Emissions%20Inventory/AACOG1999EI_OnlineIndex.html			
		Posting of San Antonio region air El for 2002	http://www.aacog.com/naturalresources/2002_NET_EI/			
AACOG	Emissions Trend Analysis 2005	Posting of report	http://www.aacog.com/naturalresources/pdffiles/082405_T endAnalysis_Sept05.pdf			
AACOG	Clean Air Pan	Posting of plan for San Antonio Region	http://www.aacog.com/cap/			
AACOG	AACOG regional newsletter	Newsletter informing the region of events, happenings, etc.	http://www.aacog.com/newsletter/			
AFP	AQ & Trees	Information on trees in regards to AQ	http://www.alamoforestpartnership.org/			
MPO	Ozone/AQ	General information on ozone and AQ	http://www.sametroplan.org/pages/Air Quality/MPOozone. tml			
MPE	Homepage	Energy Efficiency	http://www.mp4e.info/			
Build SA Green	Homepage	Building energy efficient homes in San Antonio	http://www.buildsagreen.org/			
Solar San Antonio	Homepage	Solar Energy	http://www.solarsanantonio.org/			
COSA	Environmental Services		http://www.sanantonio.gov/enviro/			
CPS	Rebates and Programs	Programs to conserve energy, preserve the environment and save money on utility bills	http://www.citypublicservice.com/content_listInternet.asp?emt_id=13			
WOAI	Air Quality	General linformation on AQ, ozone, & AQHA days	http://www.woai.com/weather/story.aspx?content_id=B9E06E29-059F-4DAD-ACFA-9DF72655970F			

9. Informational Materials and Distributions for All Outreach Efforts through AACOG						
Type of Outreach	Subject / Title	Description	Target Audience			
Brochure	DCAT Asthma/Health	Information highlighting connection between asthma and air quality	School Parents/Nurses			
Brochure	AACOG Meeting Regional Challenges	AACOG brochure promoting entire organization	Driving-age public			
Brochure	When You Care for Your Car, You Care for the Air	TCEQ brochure, reward for participating in program	Driving-age public			
Brochures/Form	CARE	Promote and recruit CARE program participants	Carpoolers (those who have matched in program)			
Card	Business Cards	Point-of-Contact material	General Public			
Childrens Item	DCAT Stickers	Encourages the maintenance of vehicles and protecting one's own health	Children, families, teachers, parents, grandparents			
Childrens Item	DCAT Stickers	Encourages RideSharing	Children, families, teachers, parents, grandparents			
Childrens Item	DLAT Tattoos	Temporary tatoos with "Drive Clean Across Texas" on them	Children			
Childrens Item	Tex & Dot & the Clean Air Crew	DCAT/TCEQ activity/coloring book for children, newest edition	Elementary-age children			
Banner	Air Quality Health Alert Banner	Flag for organizations to purchase and then hang during AQHA days	Business/Organizations			
Flyer	Walk & Roll Challenge	Promoted Events	General Public			
Flyer	AQI	Informational handout (Eng/Span) on Air Quality Index	General Public			
Flyer	Do Your Share	10 tips for improving air quality	General Public			
Flyer	Spring Tips	"It All Adds Up to Cleaner Air" - quick tips to reduce air pollution during the spring	General Public			
Flyer	Guia de Calidad del Aire para el Ozono	Ozone Information piece, in Spanish	General Spanish-Speaking Public			
Flyer	We'd Love To Visit	Promotes AACOG program presentations	General Public, organization members			
Flyer	Alamo Area Clean Air Partnership	Program Description & Promotion	Businesses			
Flyer/Form	School Commute Solutions	Participation form to join program	K-12 parents/Teachers/Principals			
Form	Carpool/Bike Buddies Sign-Up	Participation form to join program	General Driving-age public			
Poster	Air Pollution Gremlins	TCEQ poster - 6 Gremlin characters with the six primary air pollutants (e.g. Odious Ozone), English & Spanish	Teachers, Elementary-age to Middle School age children			
Poster	DCAT Ollie's Air Quality Index Poste	DCAT poster - promoting air quality to students, English & Spanish	Teachers, Elementary-age children			

9. Informational Materials and Distributions for All Outreach Efforts through AACOG (Cont.) **Type of Outreach** Subject / Title **Description Target Audience** DCAT poster - promoting air quality to students, English & Poster DCAT Care for Our Air Teachers, Elementary-age children Spanish Promotional Item Adopt-a-School Bus Bookmark Encourage cleaner school buses Elementary-age children DCAT promotional item, reward for participating in Promotional Item Air Care Kit Driving-age public program Promotional Item **AQHA Magnet** AQHA contact information General Public Promotional Item Clean Air Drive Fans Hand fan with Air Quality tips General Public Incentive item to encourage program participation (e.g. Promotional Item Commute Solutions Lanyards Driving-age general public reward for carpoolers) Incentive item to encourage program participation (e.g. Promotional Item Clean Air Driver Magnet Driving-age general public reward for no idle pledge takers) Incentive item to encourage program participation (e.g. Commute Solutions Lunch Sacks Promotional Item Driving-age general public reward for carpoolers) Promotional Item Commute Solutions Squeeze Car Incentive item to encourage program participation (e.g. Driving-age general public Incentive item to encourage program participation (e.g. Promotional Item Commute Solutions Travel Mug Driving-age general public reward for carpoolers) Promotional Item **DCAT Notepads** Provides quick tips to improve air quality General Public Promotional Item No Idle Pledge Pens Reminds public to avoid idling General Public Encourages tire pressure maintenance and improved gas Key Ring with Tire Pressure Gauge Promotional Item General public, driving age mileage Air Quality & Transportation Compilation of lessons/activities adapted for region. School Item Teachers/School Admin./Parents Curriculum School Item Nurse Door Sign (AQHA) Alert students/teachers fo AQHA Teachers/School Admin./Students Toolkit to describe ozone pollution and AACOG School Toolkit: Ozone 101 Teachers/School Admin./Students/Parents School Item services/programs Nurse Door Sign (Kids Clean-up the School Item Provides quick tips to improve air quality Teachers/School Admin./Students Air) DCAT cartoon, 6 minute video featuring Tex & Dot & the DCAT Clean Air Crew Elementary-age Children & Teachers Video Clean Air Crew Paper fortune cookie listing various tips to improve fuel Informational Item ACAP "Fortune Cookie" Drivers economy and air quality ACAP Take Out Air Pollution Dollar-shaped flyer referencing the Take Out Air Pollution Flyer General Public menu and web site "Dollar"

Alamo Area Council of Governments 2006 Outreach Campaign Summary Air Quality Programs

Adopt-A-School Bus
Air Quality Health Alert Program
Alamo Clean Air Partnership
Alamo Clean Cities Coalition
Commute Solutions

For more information about AACOG's air quality outreach programs, visit www.cleanairdrive.com



www.cleanairdrive.com



Background

The Alamo Area Council of Governments supports a number of air quality education and outreach programs to inform the community of local air pollution issues. These issues include the consequences of high pollution levels and measures we can all take to improve our air quality. The outreach programs target a range of audiences: local governments, industries, businesses, schools, and the general public.

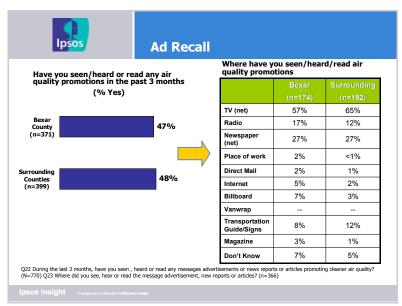
During 2006, a primary focus of the educational campaign was the effect of ground-level ozone on health and measures we can take to protect pollution-sensitive groups. The campaign also focused on the short opportunity we have as a region to meet the U.S. Environmental Protection Agency's (EPA) air quality standard for ground-level ozone. EPA will analyze regional ozone measurements for 2005, 2006, and 2007 to determine whether local, voluntary efforts to reduce air pollution are successful. Since the largest single source of man-made emissions produced locally are the result of operating on-road vehicles, the primary outreach message highlighted throughout the year emphasized the benefits of driving less and performing regular vehicle maintenance on private and fleet vehicles.

In preparation for the 2006 outreach campaign, Natural Resources staff contracted with a marketing research company to determine, among other issues, how wide a geographical area the air quality messages were dispersed and which venues most effectively delivered the messages. The survey was conducted in the fall of 2005 and revealed that, indeed, the messages were reaching beyond San Antonio/Bexar County and into the more rural surrounding counties. The survey also revealed people were much more likely to remember messages aired on television than any other media type.

Research Results

In answer to the question, "Have you seen/heard or read any air quality promotions in the past 3 months,' 47% of the respondents in Bexar County answered yes; similarly 48% of the respondents in 11 surrounding counties answered yes.

When asked "Where have you seen/heard/read air quality promotions," the most common answer was television. In Bexar County, 57% of the respondents recalled watching ads on television compared to 65% in surrounding counties.



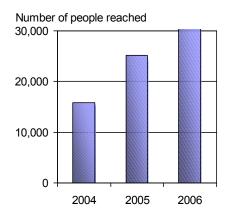
2006 Highlights

This year was a year of progress for the air quality outreach/education programs, as described in more detail on the following pages. Many of the accomplishments were achieved with support and collaboration from member governments and other organizations. Highlights of the 2006 outreach projects and campaigns are listed below.

First, some "firsts"

- ◆ AACOG, in collaboration with the MPO, held the first Walk & Roll Corporate Challenge in June. The number of vehicle miles reduced by participating businesses and agencies during the Challenge = 216,139.
- Alamo Area Clean Cities Coordinator, Isabel Martinez, received recognition for "Coordinator Excellence" at the Clean Cities Coordinators meeting in Washington, D.C. on March 6, 2006.
- AACOG conducted the first Environmental Stewardship Awards and presented certificates to six organizations in recognition of their efforts to improve air quality in the San Antonio region.





2006 Statistics

- ◆ The number of people reached through presentations and events in 2006: 30,408 an increase of 21% over 2005.
- ◆ The number of air quality brochures and other outreach/educational materials distributed in 2006: 24,738 — an increase of 25% over 2005.
- ◆ Participation in the Alamo Clean Air Partnership grew 100% in 2006.
- AACOG distributed over 500 Air Quality Health Alert banners, 400 of which were distributed to area schools. (See the Air Quality Health Alert page for details).
- ◆ The Certified Auto Ride Home in an Emergency (CARE) program grew by nearly 60 participants in 2006. Between 2000 and 2005, nine people registered to participate.
- The ozone season kickoff event was held in conjunction with CPS Energy's Live Green Fest in April. The combined event, Live Green Fest/ Clean Air Drive, attracted more than 4,000 people, making it the most successful kickoff event in the history of the Alamo region's Commute Solutions program.



The Live Green Fest/ Clean Air Drive event at Eisenhower Park drew a crowd of more than 4,000.

General Marketing

AACOG's five air quality outreach/education programs target a variety of audiences and pollution sources, but have one common theme: good air quality is important for our health, environment, and economy.

During the year, air quality programs were promoted through events/exhibits, presentations, workshops, distribution of materials, and work with the media. Because newspapers, radio, and television can reach such large and diverse audiences, outreach efforts often included media participation. Media participation was encouraged by developing and distributing nine press releases; conducting or assisting with eight press conferences in conjunction with major air quality announcements; requesting and participating in an editorial board meeting with San Antonio Express-News staff; and distributing media packages — *Ozone 101 for the San Antonio Region* — to local media representatives.

Work with the media proved to be fruitful and resulted in additional promotion of our air quality messages. Examples of the added coverage include seven newspaper articles, six television interviews, ten radio interviews, and widespread air quality health alert distribution through most media outlets.





Evaluation

One process used to measure the effectiveness of the 2006 air quality outreach and education campaigns was a survey of general air quality knowledge and familiarity with outreach messages. The survey was conducted immediately before the 2006 campaign began in April and again in November-December to evaluate campaign effectiveness. A comparison of the spring and fall survey results will be available in January 2007.

Paid Advertising

The Commute Solutions program provides some funding for developing a paid advertising campaign. To leverage resources and emphasize consistent messages, AACOG aired English- and Spanish-language advertisements developed by Drive Clean Across Texas (DCAT). Visit www.drivecleanacrosstexas.org for more information about the DCAT campaign and advertisements.

A fall 2005 survey showed that television is the most effective means of delivering air quality messages; hence, television played a major role in the 2006 advertising campaign. In addition, radio was used extensively to target specific audiences. Examples include the Hispanic community (through KLEY-FM) and young drivers (through KISS-FM).

Marketing Media Schedule

The 2006 advertising campaign was broadcast using a variety of media: television, radio, newspaper, and outdoor billboards. Advertising was scheduled to maximize the number of air quality messages aired during months when ground-level ozone peaks and to promote air quality outreach events conducted in the fall.

Texas Transportation Institute's (TTI) Drive Clean Across Texas (DCAT) program also purchased radio and television air time in the San Antonio region. DCAT's campaign ran in June and August 2006. To maintain consistency and reinforce DCAT's air pollution messages, AACOG aired the TTI-developed ads as well and

scheduled run times for weeks between and after their June and August campaigns.

AACOG staff sought in-kind promotion as another means of maximizing the advertising budget. For the \$33,485 investment in paid advertising, AACOG received \$53,420 in added value



Drive Clean Across Texas' Billboard Message

promotions. In addition, a number of stations ran public service announcements (PSAs) with air quality messages.

		Jur	ne				July				Aug	gust			Sept	embe	er		C	ctob	er			Nove	mber	r
Media	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
Radio																										
English																										
Spanish																										
Outdoor																										
Billboards																										
Television																										
English																			•							
Spanish																										
Internet																										
Television stations																										
Radio stations																										

Purchased by AACOG PSAs Purchased by Drive Clean Across Texas 2006 Advertising Campaign Schedule

Added-value Opportunities

Added-value opportunities, advertising spots or activities added to a primary advertising package, increased the value of the marketing campaign by \$53,420. These opportunities included the following:

Radio

KELZ-FM

106.7—Young adult

Added value with advertising package: \$3,500

Added value with participation in Hispanic Health Fair: \$1,000

KISS-FM

99.5—Young adult

Added value with advertising package: 90 live PSAs valued at \$22,500

KONO-AM/FM

101.1—25 to 54 age group

Added value with advertising package: 39 (:60) commercials valued at \$4,620

KTFM/KLEY

KTFM 94.1—Adults 25-54

KLEY 95.7 FM, 1250 AM—Hispanic adults 25-54

Added value with advertising package including dual-station remote: \$13,200

Television

KSAT-TV

Added value with advertising package: \$8,100



Adopt-A-School Bus Program

Goals: (1) decrease emissions associated with operating school buses and dropping off/picking up students, and (2) garner interest in the Green Patrol program from area schools.

2006 Highlights

School Bus Workshop

AACOG's Adopt-A-School Bus (AASB) administrator collaborated with Austin's AASB program coordinator to conduct a Clean School Bus workshop in October 2006. School district transportation personnel from the San Antonio and Austin areas were invited to attend and hear presentations on technologies and fuels that reduce school bus emissions. Emissions from idling school bus engines were also addressed. This successful workshop attracted approximately 80 school transportation personnel from the two regions.

Green Patrol

Camelot Elementary (North East ISD) became the first school in the AACOG region to initiate a "Green Patrol." The Green Patrol program — part of the Adopt-A-School Bus campaign — encourages school bus drivers and parents to turn off their vehicle engines when picking up and dropping off students. The program includes an educational component that addresses the air quality benefits of reducing emissions associated with engine idling.

In 2006, staff conducted the following activities as part of the pilot program:

- Presented and deputized school's Safety
 Patrol to take on the tasks of Green Patrol
- Distributed signs, Green Patrol safety vests, and buttons
- Presented anti-idling program to school's faculty
- Performed emissions inventory survey to estimate the number of idling vehicles at the school
- Created a letter for the parents explaining the purpose of the program

Staff will work with Camelot Elementary to officially kick off the Green Patrol program in April 2007.





Green Patrol Program Materials

Left, No Idle Zone sign for Green Patrol to display at student pick-up. Right, Green patrol button and sticker students wear while on duty.

Participation as of December 2005: 0 Participation as of December 2006: 1

AACOG staff will increase program promotion through the participating idle reduction school districts.

Idle Reduction

Inspired by the Walk & Roll Corporate Challenge Project Officer Rally, Edgewood ISD chose to reduce emissions by participating in the Idle Reduction Campaign. Edgewood ISD implemented a no idling policy for its school bus fleet. Edgewood ISD also reworked bus routes for increased efficiency and to minimize miles driven. AACOG staff provided an anti-idling workshop to the drivers, educating the importance of idle reduction and their students' health.

Alamo Clean Air Partnership

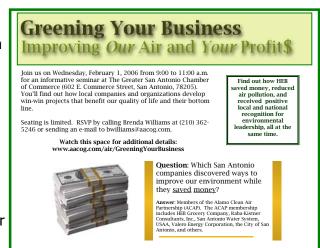
Goal: Promote adoption of voluntary emission reduction measures among the regions' industries, businesses, government agencies, and other organizations.

2006 Highlights

Greening Your Business Seminar

On February 1, 2006, the AACOG's Alamo Clean Air Partnership (ACAP) program organized and conducted a "Greening Your Business" seminar at the Greater San Antonio Chamber of Commerce. The purpose of the workshop was to provide participants with information on methods they could adopt within their organizations to improve air quality *and* save money.

H-E-B Manager of Environmental Affairs, Susan Ghertner delivered the keynote address by describing the highly successful programs the grocery chain implemented to improve the environment and save their company a substantial amount of money.



Number of participants: 35

Walk & Roll Corporate Challenge

The ACAP program sponsored a new Walk & Roll event in 2006 — the Walk & Roll Corporate Challenge.



Sally Villareal, TXDoT Human Resources Specialist and Clay Smith, TxDoT Director of Transportation Planning and Development accept the 2006 Corporate Challenge cup on behalf of TxDoT. Area businesses were encouraged to promote carpooling and other alternative commuting measures to their employees during the month of June. Over 500 employees from twelve participating organizations logged 216,139 "smart miles" (commuting by carpooling, vanpooling, walking, riding a bicycle, or riding the bus) in June, reducing ozone-forming air pollution emissions by approximately 800 pounds.

The Texas Department of Transportation won the 2006 Corporate Challenge by achieving an average of 36 miles per employee during the month of June.

The primary goals of the Challenge were to promote better transportation and improve air quality in our region.

Number of ACAP members as of December 2005: 8 Number of ACAP members as of December 2006: 16

Alamo Area Clean Cities Coalition

Goals: Improve air quality and economic security by reducing the use of petroleum-based fuels used to power on-road and off-road fleets in the region.

2006 Highlights

Re-designation Ceremony

Every five years Clean Cities coalitions are required to renew their commitment to the federal program's initiatives. In accordance with the program requirement, the Alamo Area Clean Cities Coalition held their five-year-anniversary re-designation ceremony in March 2006. The Coalition Coordinator used the opportunity to promote the Clean Cities program and encourage the use of alternative fuels/vehicles, hybrid-electric vehicles, and idle reduction technologies.

Number of participants: 28

Slash Your Fuel Costs Workshops

AACOG's "Greening Your Business" seminar provided the impetus to conduct a series of workshops with a similar theme: improving air quality can also improve a company's bottom line. These workshops focused on specific money-saving measures to reduce air pollution. The Clean Cities Coordinator conducted three "Slash Your Fuel Costs" workshops targeting large fleet operators in the San Antonio area. The main speaker, Master Mechanic Franz Hofmann, presented tips on vehicle operation and maintenance that significantly improve fuel economy.

Number of participants: 39

New Ethanol Station—H-E-B Grocery Stores

The Alamo Area Clean Cities Coalition supported H-E-B's efforts to increase the availability of E85 in Texas and creating an ethanol corridor along I-35. One of the first H-E-B stores to offer the cleaner-burning alternative fuel is in Schertz. AACOG staff participated in H-E-B's August 2006 press conference which featured AACOG's Executive Director, Al Notzon, pumping the first gallon of ethanol into his vehicle.



Mr. Al Notzon, AACOG Executive Director, filling-up with ethanol at H-E-B's new E85 station in Schertz, Texas.

Air Quality Health Alert Program

Goals: Increase participation in the program and improve the distribution process.

Improvements to the Notification Process

Prior to the start of ozone season 2006, AACOG began the process of adopting a new notification system — ScanUSA — to distribute Air Quality Health Alerts. ScanUSA is a community alert network that "allows local law enforcement and public safety agencies to send alerts to the PCs, cell phones and PDAs of their neighborhood and local residents." Prior to the 2006 ozone season, notifications could only be sent by fax or e-mail. ScanUSA improves the distribution process by providing a wider range of methods to receive alerts. The City of San Antonio was instrumental in promoting the new notification system.

AIR QUALITY Health Alert

The AQHA logo is displayed whenever an alert is issued to encourage citizens to take appropriate actions.

Adopt-A-Banner Program

The Air Quality Health Alert (AQHA) notification program was jumpstarted early in the year when City of San Antonio Councilman Chip Haass (District 10) offered to purchase Air Quality Health Alert banners for area schools. With the support of other City council districts, nearly 400 San Antonio schools received banners to display on Air Quality Health Alert days. AACOG's Natural Resources Department distributed the banners to school nurses or other school staff and used the

AIR QUALITY

HEALTH ALERT

The AQHA Banner is hung when an alert is called. Schools hang the banner in prominent locations outside the school to alert students, faculty, and staff, as well as parents. opportunity to provide air quality educational materials to participating institutions.

Between June and December 2006, all San Antonio schools had enrolled in the AQHA notification program and AACOG staff had provided schools the following:

- AQHA banner (purchased by the City of San Antonio)
- Laminated AQHA sign for school nurse's door
- ◆ Laminated Kid's Tips sign
- Posters (English and Spanish versions) Health Effects of Common Air Pollutants
- School Toolkit providing information about air quality in the San Antonio region, the impact of air pollution on sensitive groups such as children, and ways to improve air quality.

Number of schools participating in AQHA program: 420

Note: Comal ISD schools began participating in the program November 2006.

Commute Solutions

Goals: Improve carpool matching process and increase the use of alternatives modes of commuting (carpooling, vanpooling, walking, riding the bus, and riding a bicycle)

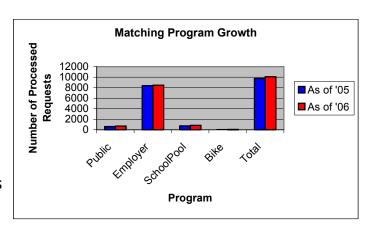
2006 Media Campaign

Details of the 2006 media campaign were presented on page 5 of this report. Highlights of the campaign include:

- ◆ Through collaboration with Drive Clean Across Texas, air quality advertisements were aired continuously in the San Antonio region from June—November 2006
- Media outlets were selected to ensure as wide and diverse an audience as possible and include:
 - ◆ Radio: KELZ (plus web site ads), KONO (plus web site ads), KISS, and KTFM/KLEY
 - Television: KSAT (plus web site ads)
 - Print Tags: Seguin Gazette, New Braunfels Herald-Zeitung,

Carpool Program

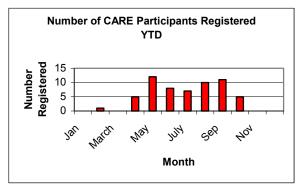
Carpooling provides many benefits for the commuter and our air. AACOG's Commute Solutions program provides free matching services for the San Antonio Region. Those interested in sharing a ride can register under the employer pool (specific company destination), the SchoolPool (elementary through high school), the public pool, or the Bike Buddies program. AACOG staff determines the best available matches according to home and destination coordinates.



All three carpool programs combined show a 92% success matching rate average. To encourage program participation, AACOG staff raffled a free Texas Independent Automotive Association (TIAA) oil change gift certificate each month during Ozone Season.

Certified Auto Ride in an Emergency (CARE)

The fear of being "stuck" or a lack of flexibility can often deter individuals from carpooling or utilizing public transit. AACOG and VIA sponsor a guaranteed ride home program to overcome



this obstacle and make ride sharing more convenient. For \$5 per year, each member receives four free taxi rides up to 30 miles, one way within the AACOG region. In the event of an emergency or an unplanned late day at work, participants may use a CARE voucher for a free ride home. The CARE program began in 2000 with only 9 members from 2000-2005. The program has seen great success this year with 59 new participants.

2006 Event List

During the year, AACOG staff participated in the following events:

Date	Outreach Type	Venue	Date	Outreach	Venue
	Presentation Presentation	Herff Elementary Greater SA Chamber of Commerce	8/9/2006E 8/11/2006E		Seguin Health Fair Candlewood ES Teacher Night
2/4/2006 2/22/2006 2/25/2006	Exhibit	Arbor Day Event Bonnie Raitt Concert Earthwise Living Day	8/15/2006E 8/22/2006E 9/9/2006E	Exhibit	RMA Quadrant meeting RMA Quadrant meeting NRC Neighborhood Conference
3/16/2006 3/25/2006	Presentation	TIAA Alamo Chapter Clean Cities Redesignation	9/15/2006F 9/19/2006E	Presentation	SAMA MPO Traffic Safety and
		· ·			Solutions workshop
3/27/2006	Presentation	Homeshool Environmental Grp	9/23/2006E	Exhibit	Alamo Regional Academy of Science and Engineering
3/31/2006	Exhibit	Basura Bash	9/26/2006E	Exhibit	SAISD district-level PTA meeting
4/8/2006	Event	Live Green Fest/ Clean Air Drive	9/30/2006E	Exhibit	National Public Lands Day
4/19/2006	Exhibit	Earth Day Event at SAC	9/30/2006E	Exhibit	Boy Scout Camp-O-Ree
4/20/2006	Exhibit	Earth Day Event at NW Vista College	9/30/2006E	Exhibit	City Year Environmental Day
4/22/2006	Exhibit	Earth Day Event at Woodlawn Lake	10/4/2006F	Presentation	Encino Park Elementary
4/26/2006	Exhibit	Earth Day Event at UTSA	10/6/2006F	Radio Remote	G.M. Automotive
5/1/2006	Exhibit	Earth Day Event at TxDOT	10/12/2006E	Exhibit	Asthma Coalition of Texas conference
5/12/2006	Presentation	WaterFest - Student Day	10/14/2006E	Exhibit	STAC Nurse Workshop
5/13/2006	Exhibit	WaterFest	10/14/2006E	Exhibit	Audubon Society Plant & Wildlife Festival
5/13/2006	Exhibit	Walk & Roll Fest	10/15/2006E	Exhibit	Hispanic Health Fair
5/18/2006	Event	Walk & Roll Corporate Officer Rally	10/24/2006F	Presentation	Villareal Elementary
5/19/2006	Presentation	Sr. Citizen Advisory Council	10/21/2006E	Exhibit	Bike Expo @ Calaveras Lake
5/20/2006	Event	Air Quality Health Fair	10/27/2006F	Presentation	School Traffic Safety Summit
5/23/2006	Exhibit	Lackland Safety Day	10/28/2006E	Exhibit	District 3 Family Services & Community Fair
6/5/2006	Exhibit	Harcourt Environmental Day	11/4/2006E	Exhibit	Edgewood ISD Health Fair
6/15/2006	Event	GM Tour	11/10/2006E	Exhibit	Harcourt Environmental Day
7/11/2006	Exhibit	RMA Quadrant meeting	11/11/2006E	Exhibit	District 10 Fall Community Services Fair
7/24/2006	Presentation	Judson ISD ERC	11/14/2006F	Presentation	NEISD Transportation Department
7/25/2006	Presentation	Kenedy Rotary Club	11/14/2006F	Presentation	NW Homeschooling Group
7/29/2006	Exhibit	SA HERO Conference	11/14/2006E	Exhibit	GIS Day for Professionals
8/2/2006	Exhibit	RMA Quadrant meeting	11/15/2006E	Exhibit	GIS Day for Students
8/3/2006	Presentation	SAWS Brown Bag	11/15/2006E	Exhibit	Texas Recycles Day
8/4/2006	Presentation	NEISD Nurse Workshop	12/2/2006E	Exhibit	Christmas Along the Corridor Event

Coming Soon: Planning for 2007

Fresh Air Friday

The first annual Fresh Air Friday event will take place March 30, 2007 in downtown San Antonio. This event will kick off ozone season, the new RideShare Rewards program, and the 2007 Walk and Roll Challenge. Employees are invited to walk to the event for lunch while enjoying the fresh air. Food vendor booths will sell lunch while local exhibitors will display air quality information as well as *green* options for living.

RideShare Rewards

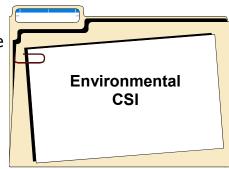
The RideShare Rewards is a project designed to increase participation in the employer pool program. According to a recent survey distributed by AACOG, results showed rewards/ incentives the top motivator people consider when deciding to carpool. RideShare Rewards will pay employees commuter points for every round-trip they carpool or vanpool to and from work. Participants register online under their place of employment, log the number of weekly carpool/ vanpool trips, and receive commuter points for every round trip over five miles. When they accumulate a certain number of points, they receive a gift card and qualify for the monthly prize that will be drawn randomly from the participant pool. We are currently seeking sponsorships from local businesses to provide the gift cards and monthly prizes.

Carpoool Matching Software

The Commute Solutions ride matching program has seen great success since it began in 2001. In order to keep up with matching demand, we will purchase a real-time matching system. Participants commuting in the San Antonio region will have the opportunity to register for rideshare matching on a new website. After entering required information, matching results and a map will be displayed immediately. This new system will greatly decrease turnaround time and provide more efficient program feedback. Through administrative features, we can better determine who is actively carpooling, the number of saved vehicle miles traveled, and the amount emissions reduced from ridesharing.

New Educational Materials

New educational materials are under development that target the region's younger citizens. Environmental CSI can be used to teach middle-school students about air quality by solving the "dirty air crimes" and the Air Action Team program will target elementary-age students.



Questions about AACOG's air quality outreach programs?

Air Quality Health Alert Program

Alamo Adopt-A-School Bus Program

Alamo Area Clean Cities Coalition

Alamo Clean Air Partnership

Commute Solutions

Contact us at

(210) 227-7665 igonzales@aacog.com Www.cleanairdrive.com

Project	Agency	Project Name	From	То	Let	Compl.	VOC	NOx
Type		1			Date	Date	(lbs/day)	(lbs/day)
Sidewalk	TxDOT	Acme Road	Old Highway 90	0 1	1999	2001	0.069	0.058
Sidewalk	TxDOT	Gevers St	IH 10	Southcross	2000	2001	0.242	0.204
Sidewalk Sidewalk	TxDOT TxDOT	Henderson Pass IH 410	Thousand Oaks Bertetti	Gold Canyon Marbach	2000	2001	0.202 0.050	0.170 0.042
Sidewalk	TXDOT	Mission Trails (Phase		Marbach	2000	2000	0.050	0.042
Bike/Ped	TxDOT	3)	E. Southcross	Mitchell St.	2000	2001	0.712	0.600
Bike/Ped	TxDOT	Mitchell St.	Probandt to	Roosevelt	2000	2003	0.104	0.088
Bike/Ped	TxDOT	Nogalitos (LP 353)	Zarzamora / New Laredo Hwy	Surrey	2000	2003	0.235	0.198
Bike/Ped	TxDOT	Probandt St.	US 90	Mitchell	2000	2003	0.014	0.012
Bike/Ped	TxDOT	Prue Rd	Laureate	Fredericksburg	2000	2002	0.065	0.054
Bike/Ped	TxDOT	Rittiman	Austin Hwy (LP 368)	Harry Wurzbach	2000	2002	0.124	0.105
Bike/Ped	TxDOT	Timber Path Bikeway	Les Harrison	Grissom Rd.	2000	2001	0.166	0.140
Bike/Ped	TxDOT	Bitters Rd	Broadway	Nacogdoches Rd.	2001	2003	0.282	0.237
Bike/Ped	TxDOT	Callaghan	Hemphill	Culebra	2001	2003	0.266	0.225
Bike/Ped	TxDOT	Coliseum Rd.	East Houston St.	Gembler Rd.	2001	2004	0.123	0.104
Bike/Ped	TxDOT	East Houston St.	Walters	Onslow	2001	2003	0.054	0.045
Bike/Ped	TxDOT	East Houston St.	Onslow St.	Salado Creek	2001	2002	0.084	0.071
Bike/Ped	TxDOT	Pearsall Rd (FM 2536)	Loop 13 (Military Drive)	IH 410	2001	2003	2.630	2.216
Bike/Ped	TxDOT	Pecan Valley Dr	J St. to	IH 10	2001	2003	0.049	0.041
Bike/Ped	TxDOT	Pleasanton	Moursund	Gillette	2001	2003	0.027	0.023
Bike/Ped	TxDOT	Southcross	WW White (LP 13)	Loop 410	2001	2003	0.209	0.176
Bike/Ped	TxDOT	Uhr Lane	Higgins	Thousand Oaks	2001	2004	0.210	0.177
Bike/Ped	TxDOT	New World	Crestway	Montgomery	2004	2004	0.050	0.042
Sidewalk	TxDOT	New World	Montgomery Dr	Walzem Rd (FM 1976)	2004	2004	0.050	0.042
Sidewalk	Federal	Alamo	Cedar	San Antonio River	2003	2003	0.031	0.026
Sidewalk	TxDOT	W.W. White Rd. (Loop 13)	Seale Road	IH-10	2004	2005	0.336	0.283
Sidewalk	TxDOT	Grissom/Culebra (FM 471)	SH 16	Loop 1604	2003	2004	2.040	1.719
Sidewalk	TxDOT	Southcross Blvd.	S. New Braunfels to S. Presa St.	S. Presa St.	2005	2004	0.107	0.090
Sidewalk	TxDOT	Hunt Lane	Marbach to US 90	US 90	2004	2004	0.273	0.230
Sidewalk	Federal	Isom	Ramsey	US 281	2004	2004	0.084	0.071
Sidewalk	COSA	Roland (US 87)	IH 10	Rigsby Avenue	2004	2005	0.100	0.084
Sidewalk	COSA	SH 218 (Pat Booker Road)	Loop 1604	FM 78	2004	2005	0.998	0.841
Sidewalk	COSA	Sunset	Jones Maltsberger	Teak	2004	2005	0.135	0.114
Sidewalk	Bexar Co.	Kitty Hawk Rd	Miller Rd.	Converse City Limits	2004	2005	0.070	0.059
Bikeway	COSA	UTSA to OLLU Corridor	Houston St.	24th St.	2004	2005	0.507	0.427
Bikeway	COSA	Cincinnati	St. Mary's University	Navidad	2004	TBDL	0.189	0.159
Bikeway	COSA	Cincinnati / Ashby	Navidad	North St. Mary's St.	2004	TBDL	0.189	0.159
Bikeway	COSA	Alamo / Broadway Corridor	Josephine	The Alamo	2004	TBDL	0.297	0.251
Bikeway	Bexar Co.	Crestway	Miller Road	New World	2004	2005	0.070	0.059
Sidewalk	Bexar Co.	New World	Crestway	Miller Road	2004	2005	0.026	0.022
Bike racks	COSA		Various Locations		2004	2005	0.000	0.000

Project	Agency	Project Name	From	То	Let	Compl.	VOC	NOx
Туре		-		11 (14/1)	Date	Date	(lbs/day)	
Sidewalk	COSA	Clark	Southcross	Hot Wells	2004	2008	0.073	0.062
Sidewalk	Bexar Co.	Crestway Drive	New World	Windcrest City Limits	2004	2005	0.060	0.051
Sidewalk	COSA	Hot Wells	IH 37	New Braunfels	2004	TBDL	0.016	0.013
Sidewalk	COSA	E. Houston	Pine	Walters	2004	2006	0.060	0.050
Bike Lane	COSA	Ingram	Callaghan	Benrus	2004	TBDL	0.215	0.181
Sidewalk	COSA	Blanco Road (FM 2696)	Lockhill Selma	West Avenue	2004	TBDL	0.421	0.355
Bike Lane	Univ City	SH 218	Loop 1604	FM 78	2004	2004	0.928	0.782
Sidewalk	COSA	Flores, S	0.6 Mi N of Malone	Octavia	2005	2006	0.191	0.161
Sidewalk	COSA	Mayfield	Commercial	Zarzamora	2005	TBDL	0.024	0.020
Sidewalk	COSA	McCullough	Basse	RR Tracks	2005	TBDL	0.087	0.073
Sidewalk	COSA	Nakoma	@ US 281	4C	2005	TBDL	0.256	0.216
Sidewalk	COSA	Woodlawn	Bandera	Maiden 4C	2005	TBDL	0.104	0.087
Sidewalk	COSA	Sunset	Teak	Broadway 4C	2005	TBDL	0.103	0.086
Sidewalk/bike	COSA	Callaghan	Bandera	Horseshoe Bend	2007	2008	0.414	0.349
Bike Lane	COSA	SAC to CBD	Howard	4th	2001	2001	0.082	0.069
Bike Lane	COSA	Montana/Nevada	Cherry	Meerscheidt	2001	2001	0.040	0.034
Bike Lane	COSA	N.Zarzamora	Nogalitos	Theo	2001	2001	0.040	0.034
Bike Lane	COSA	N. St. Mary's	Lexinton	Huisache	2001	2001	0.138	0.168
Bike Lane	COSA	Callaghan	Old Highway 90	New HWY 90	2001	2001	0.199	0.108
Bike Lane	COSA	S. Zarzamora	SW Loop 410	IH 35	2001	2001	0.338	0.285
Bike Lane	COSA	Caliza	Encino Rio	Evans Rd.	2001	2001	0.061	0.052
Bike Lane	COSA	UTSA to SAC	Buena Vista	San Pedro	1999	1999	0.299	0.252
Bike Lane	COSA	Les Harrison	Culebra	Dover Ridge	2000	2000	0.313	0.264
Bike Lane	COSA	Josephine Grayson	Broadway	New Braunfels	2000	2000	0.085	0.072
Bike Lane	COSA	Walters	Fair Ave.	Rigsby Avenue	2000	2000	0.235	0.198
Bike Lane	COSA	Villaret	Zarzamora	Hwy 16	2000	2000	0.074	0.062
Sidewalk	COSA	Rice Reconstruction	W. W. White	Semlinger	2004	2005	0.033	0.028
Sidewalk	Comal Co.	New Braunfels	LP 337	0.8 KM N of Walnut Ave.	2004	2005	0.197	0.166
Bike path	COSA	Malone / Theo	Quintana	Concepcion Park	2004	TBDL	0.655	0.552
Side walk	COSA	Gen Mcmullen	Roselawn	Commerce	1999	1999	0.664	0.560
Bike Path	COSA	Avenue B (Bicycle Lanes)	Mulberry	Brackenridge	2000	2000	0.095	0.080
Bike Path	COSA	Montana Street Bike Lane	Alamodome	Walters	2001	2001	0.018	0.016
Bike Path	COSA	Villaret Bicycle Transportation	W. Villaret	E. Villaret	2001	2001	0.107	0.090
Bike Path	COSA	Zarzamora Bike Lane	IH 35	Loop 410	2001	2001	0.000	0.000
Bike Path	COSA	Eagleland/Riverwalk Link	Eagleland Drive	Guenther Street Bridge	2006	TBDL	0.021	0.018
Sidewalk	COSA	Mckay	(400 Block)	(500 Block)	2001	2001	0.008	0.006
Sidewalk	COSA	Harvard Terrace	Yale	University	2001	2001	0.001	0.001
Side walk	COSA	Dell Place Drainage Project	North Freeman	(dead end)	2001	2001	0.000	0.000
Sidewalk	COSA	Hardeman St Sidewalks	Mesquite	Hackberry	2001	2001	0.002	0.002
Sidewalk	COSA	Gevers-IH 10	Gevers	Southcross	2001	2002	0.131	0.110
Sidewalk	COSA	New Braunfels	Rigsby	Southcross/IH 37	2001	2001	0.278	0.234
		Henderson Pass	Thousand Oaks	Gold Canyon.	2001	2001	0.818	0.689
Sidewalk	COSA	Sidewalks	Thousand Oaks	Gold Carlyon.	2001	2001	0.616	0.009

Project Type	Agency	Project Name	From	То	Let Date	Compl. Date	VOC (lbs/day)	NOx (lbs/day)
Sidewalk	COSA	Ray Bon Drive Sidewalks	Eisenhauer	Village Haven	2002	2002	0.031	0.026
Sidewalk	COSA	New Braunfels	IH 35	Grayson	2002	2002	0.068	0.057
Sidewalk	COSA	Pedestrian Bridge	War Horse	Trading Post	2002	2002	0.001	0.000
Sidewalk	COSA	Hoover Street	Nogalitos	Charlotte	2003	2003	0.003	0.002
Sidewalk	COSA	2003 NAMP Sidewalk	Mccullough	Mulberry	2004	2004	0.595	0.502
Sidewalk	COSA	Navajo Area Streets	(Navajo/Hutchins/Barlite)	(Navajo/Hutchins /Barlite)	2004	2004	0.159	0.134
Sidewalk	COSA	McCarty Sidewalks & Curbs	Lorene	Blanco	2004	2004	0.031	0.026
Sidewalk	COSA	Harris Storm Drainage	Alvarez	(Glass/Cass/Hals tead)	2004	2005	0.038	0.032
Sidewalk	COSA	Kono	Gembler	Belgium	2005	2006	0.026	0.022
Sidewalk	COSA	Octavia	#63 Phase II	Part B	2005	2005	0.103	0.087
Sidewalk	COSA	La Manda	West Avenue	Buckeye	2006	2006	0.006	0.005
Sidewalk	COSA	Rosabell Street	Culebra	Inez	2006	2006	0.006	0.005
Sidewalk	COSA	Cincinnati	Fredericksburg	IH 10	2007	2005	0.019	0.016
Sidewalk	COSA	Cornell	Brazos	Colorado	2007	2005	0.009	0.007
Signal	TxDOT	US 281	At Borgfeld, Bulverde, Wilderness Oaks,	and Stone Oak Roads	2003	2004	3.797	2.327
Signal	Bexar Co.	Foster Road	Candlemeadow	4C	2005	2005	0.253	0.155
Signal	Bexar Co.	Foster Road	Summer Fest	4C	2005	2005	0.059	0.036
Signal	Comal Co.	SH46	HEB driveway		2001	2002	0.052	0.041
Signal	Comal Co.	FM 725	County Line Rd		2001	2002	1.003	0.788
Signal	Comal Co.	FM 3009	FM 2252 in Garden Ridge		2001	2002	0.575	0.452
Signal	New Braun.		Union	Common	2004	2004	0.075	0.059
Signal	Guadalupe Co.	FM 3009	Savana/Verde Dr.		2001	2004	2.097	1.488
Signal	Guadalupe Co.	SH46	US 90		2004	TBDL	1.165	0.827
Signal	Guadalupe Co.	SH46	US 90		2004	TBDL	0.272	0.193
Signal	Guadalupe Co.	FM 3009	IH 35E	0.21 Mi SE of IH 35	2004	2004	1.010	0.717
Intersection	TxDOT	Hunt Lane	Marbach	US 90	2004	2004	2.790	1.674
Intersection	TxDOT	Bitters	East of West Ave (W.of US 281)		2005	2005	5.529	3.317
Intersection	TxDOT	Wurzbach	Ironside	IH 10	2004	2006	6.251	3.751
Intersection	TxDOT	IH 10	Callaghan Road		2004	2010	4.664	2.798
Intersection	TxDOT	IH 10	IH 10 West at Huebner Road		2004	2006	4.664	2.798
Intersection	TxDOT	Loop 1604	SH 16	FM 1937	2004	TBDL	0.173	0.104
Intersection	TxDOT	Loop 1604	IH 35	SH 16	2004	2006	3.731	2.239
Intersection	TxDOT	IH 10	DeZavala Road		2004	2008	4.961	2.977
Intersections	COSA	James Park Development	Rittiman and Holbrook.		2005	2006	2.292	1.375
Intersections	COSA	West Ave	Larkspur	Silver Sands, Rhapsody and Nakoma	2000	2000	15.325	9.195
Intersections	COSA	Tezel	Tezel	Timber Path	2000	2000	3.168	1.901
Intersections	COSA	Broadway	Broadway	Wetmore Rd	2001	2001	2.044	1.227
Intersections	COSA	Southwest Craft Cntr	Navaro	Augusta	2004	2004	0.842	0.505
Park & Ride	VIA	Crossroads	IH-10W & Loop 410		1988	1988	2.039	1.718
Park & Ride	VIA	Ellis Alley	Chestnut & Center Street		1998	1998	4.166	3.511
Park & Ride	VIA	University	IH 10 W & Loop 1604		1993	1993	15.150	12.767
Park & Ride	TxDOT	Elmendorf	US 181 S.& Loop 1604		1981	1981	2.573	2.168
Park & Ride	privately owned	St. Hedwig	FM 1346 & Pittman Rd.		1988	1988	0.529	0.446
Park & Ride	VIA	Randolph Blvd	IH 35 N & Crestway		1980	1980	3.038	2.560

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Transit CT.	VIA	Ingram	Ingram Road & Northwestern		1988	1988	0.547	0.461
Transit CT.	VIA	Kel-Lac	US 90 W. & Military Dr.		2004	2004	1.558	1.313
Grade Sep	TxDOT	Loop 1604	0.52 KM N of FM 471 (Culebra Rd.)	0.98 KM S of FM 471 (Culebra Rd.)	2001	2003	17.896	10.738
Grade Sep	TxDOT	IH 410	SH 16	UPRR	2004	2006	3.722	2.233
Grade Sep	TxDOT	US 281	Borgfeld Dr		2006	TBDL	17.896	10.738
Traffic Flow	TxDOT	Acme Road	Old Highway 90	D14. D.	1999	2001	0.622	0.207
Traffic Flow	TxDOT	Evers Rd.	N. of Glen Ridge	Daughtry Dr.	1999	2000	1.335	0.445
Traffic Flow	TxDOT	FM 2522 (Perrin Beitel)	IH 410		1999	2000	0.526	0.175
Traffic Flow	TxDOT	FM 78	Bexar Co. Ln.	FM 3009	1999	2002	2.653	0.884
Traffic Flow	TxDOT	Houston (FM 1346)	Pop Gunn		1999	2000	2.002	0.667
Traffic Flow	TxDOT	IH 10	0.2 mile South of Callaghan Road	0.2 mile South of N. Crossroads Blvd.	1999	2005	27.854	9.285
Traffic Flow	TxDOT	IH 410	Interchange at US 281 Fr: US 281	Nacogdoches	1999	TBDL	6.472	2.157
Traffic Flow	TxDOT	SH 151	Callaghan Rd		1999	2004	0.335	0.112
Traffic Flow	TxDOT	Tezel	Timber Path		1999	2000	0.609	0.203
Traffic Flow	TxDOT	US 281	0.590 KM N of LP 1604	0.746 KM N of LP 1604	1999	2000	6.398	2.133
Traffic Flow	TxDOT	West Avenue	FM 1535 (NW Military Hwy)	IH 410	1999	2002	2.646	0.882
Traffic Flow	TxDOT	Wurzbach Parkway	Lockhill-Selma	FM 1535 (NW Military Hwy)	1999	2002	0.460	0.153
Traffic Flow	TxDOT	24th	Commerce	Culebra	2000	2001	2.353	0.784
Traffic Flow	TxDOT	Ackerman Rd.	IH 10	Dietrich	2000	2002	0.190	0.063
Traffic Flow	TxDOT	Hildebrand	IH-10	Breeden	2000	2003	2.767	0.922
Traffic Flow	TxDOT	Hildebrand	Hwy. 281		2000	2001	0.454	0.151
Traffic Flow	TxDOT	Huebner Road	Evers Road	Redbird Lane (E of city limit)	2000	2001	1.288	0.429
Traffic Flow	TxDOT	Lockhill Selma	George Road	Whisper Path	2000	2003	0.846	0.282
Traffic Flow	TxDOT	O'Connor Rd	Crosswinds	IH 35	2000	2003	3.418	1.139
Traffic Flow	TxDOT	Wetmore	At Broadway		2000	2001	0.203	0.068
Traffic Flow	TxDOT	Wurzbach Rd	0.6 Mi East of Ingram Rd	Leon Valley WCL	2000	2001	1.945	0.648
Traffic Flow	TxDOT	Coliseum Rd.	Belgium Rd.	IH 35	2001	2002	0.712	0.237
Traffic Flow	TxDOT	Culebra Rd (FM 471)	Loop 1604		2001	TBDL	4.097	1.366
Traffic Flow	TxDOT	IH 410	Jackson-Keller Road	Honeysuckle Lane	2001	2005	42.811	14.270
Traffic Flow	TxDOT	IH 410	Honeysuckle Lane	Blanco Rd	2001	2005	25.183	8.394
Traffic Flow	TxDOT	Loop 1604	0.6 KM N of Military Dr	US 90	2001	TBDL	10.960	3.653
Traffic Flow	TxDOT	Loop 1604	1.6 KM N. of FM 471 (Culebra Rd)	0.6 KM N of Military Dr.	2001	TBDL	10.818	3.606
Traffic Flow	TxDOT	Loop 345	Cinnamon Creek	USAA Bvld	2001	2002	0.136	0.045
Traffic Flow	TxDOT	Wurzbach Road	Crystall Hill	Crystall Hill	2001	2003	1.361	0.454
Traffic Flow	TxDOT	IH 35	Coliseum & Walters		2002	2004	0.053	0.018
Traffic Flow	TxDOT	IH 410	SH 151	NA C II	2002	2006	0.009	0.003
Traffic Flow	TxDOT	Pleasanton	Southcross	Mayfield	2002	2004	0.981	0.327
Traffic Flow	TxDOT	Ralph Fair Rd. (FM 3351)	Fawn Mountain, Pimlico, Dietz Elkhorn	Parkway	2002	2003	4.243	1.414
Traffic Flow	TxDOT	SH 151	0.22 Mi W of Callaghan Rd.	0.3 Mi E of IH 410	2004	2005	17.904	5.968

Project Type	Agency	Project Name	From	То	Let Date	Compl. Date	VOC (lbs/day)	NOx (lbs/day)
Traffic Flow	TxDOT	SH 151	0.3 Mi E of IH 410	1.0 Mi E of Loop 1604	2004	2004	19.142	6.381
Traffic Flow	TxDOT	Ironside	Wurzbach		2004	2005	0.326	0.109
Traffic Flow	Bexar Co.	Mission Rd.	N. of SA River Mission Pkwy		2004	TBDL	0.070	0.023
Traffic Flow	TxDOT	Thousand Oaks	Broken Oak, Ledge View, Turkey Point,	Pebble Forest & Oak View	2004	TBDL	2.118	0.706
Traffic Flow	TxDOT	Zarzamora	IH 410	Applewhite Road	2004	2005	1.999	0.666
Traffic Flow	TxDOT	Applewhite Road	Zarzamora	Watson Road	2004	2005	1.999	0.666
Traffic Flow	TxDOT	Loop 1605	FM 1937	IH 37	2004	2005	1.243	0.414
Traffic Flow	TxDOT	Military Dr., S.E. (LP 13)	Padre	Mission Rd 4C	2005	2006	0.486	0.162
Traffic Flow	Comal Co.	LP 337	0.16 KM N of BI 35-H	0.48 KM N of UPRR	2001	2002	3.446	1.378
Traffic Flow	Guadalupe Co.		2.2 Mi S of FM 758 New Braunfels	Camp Willow Rd. (0.2 Mi S of FM 758)	2002	2002	5.878	2.177
Traffic Flow	Guadalupe Co.	FM 78	Bexar Co. Ln.	FM 3009	2002	2002	4.299	1.592
Traffic Flow	Wilson Co.	FM 1346	US 87 W of Lavernia	FM 775	2001	2002	1.400	0.560
Traffic Flow		SH 46	0.2 Mi S of FM 758	Comal Co line	2004	2004	4.219	1.562
Traffic Flow	Guadalupe Co.	SH 123	Fr US 90 Kingsbury St	IH 10	2004	2006	1.193	0.442
Traffic Flow	COSA	36th ST.	US 90	Growdon	2007	2008	2.792	0.931
Traffic Flow	COSA	Blanco Road	Blanco Road - Hildebrand	Summit Phase 1	2006	TBDL	3.602	1.201
Traffic Flow	COSA	Wurzbach Parkway Phase IV	Military Highway	Blanco Road	2002	2002	17.353	5.784
Traffic Flow	COSA	Wurzbach Rd:	Ingram Rd	Leon Valley	2002	2002	4.649	1.550
Traffic Flow	COSA	Hamilton	Guadalupe	Laredo	1999	1999	0.582	0.194
Traffic Flow	COSA	Wurzbach Rd @ Vance Jackson			1999	1999	2.227	0.742
Traffic Flow	COSA	Mitchell Street	Probandt	Presa	1999	1999	0.336	0.112
Traffic Flow	COSA	Valley Hi Drive	IH 410	Ray Ellison	1999	1999	0.412	0.137
Traffic Flow	COSA	Chipinque Drainage	General Mcmullen	Escuela	1999	1999	1.297	0.432
Traffic Flow	COSA	Zarzamora	Culebra	Commerce	1999	1999	2.705	0.902
Traffic Flow	COSA	Calaveras	Saunders	Guadalupe	1999	1999	0.568	0.189
Traffic Flow	COSA	Courtland Street	Mccullough	St. Mary's	1999	1999	0.424	0.141
Traffic Flow	COSA	Guadalupe Gardens Phase II			1999	1999	1.241	0.414
Traffic Flow	COSA	Chico/Knox/Margil			1999	1999	0.024	0.008
Traffic Flow	COSA	Folyn/Jersey/Custer/O range			1999	1999	0.280	0.093
Traffic Flow	COSA	Travis	Zarzamora	Hamilton	1999	1999	0.566	0.189
Traffic Flow	COSA	Villa Coronado Streets, Phase III A			1999	1999	0.097	0.032
Traffic Flow	COSA	Mayfield	Somerset	Laredo Hwy	1999	1999	0.122	0.041
Traffic Flow	COSA	Hazel Drainage	Zarzamora	Brazos	1999	1999	0.751	0.250
Traffic Flow	COSA	Lillita	Gen. Mcmullen	Las Palmas	1999	1999	0.108	0.036
Traffic Flow	COSA	Advance & Brice			1999	1999	0.045	0.015
Traffic Flow	COSA	calle morelia drainage			1999	1999	0.095	0.032
Traffic Flow	COSA	Emory / Kentucky			1999	1999	0.120	0.040
Traffic Flow	COSA	26th Street	Travis	Culebra	1999	1999	0.147	0.049
Traffic Flow	COSA	Wurzbach Parkway Phase II			1999	1999	11.623	3.874
Traffic Flow	COSA	Keitha Area Streets Phase II			1999	1999	0.645	0.215

Project	Agency	Project Name	From	То	Let	Compl.	VOC	NOx
Type		Musliman	A	4046	Date	Date	(lbs/day)	(lbs/day)
Traffic Flow Traffic Flow	COSA COSA	Muskogee Boehmer	Acme Burbank Loop	40th S. Flores	1999 1999	1999 1999	0.080 0.014	0.027 0.005
Traffic Flow	COSA	Dewitt	IH 10	Fairmont	1999	1999	0.014	0.005
Traffic Flow	COSA	Claremont/Eleanor/Nat alen,Ph I&Mahncke Ph IV		Fairmont	1999	1999	0.234	0.078
Traffic Flow	COSA	Lake Blvd/Woodlawn/Street s	Around Woodlawn Lake		1999	1999	2.077	0.692
Traffic Flow	COSA	S. Flores Drn #70-70a, Ph. IIPart 2			2000	2000	0.000	0.000
Traffic Flow	COSA	34th Street	Hwy 90	Castroville	2000	2000	0.064	0.021
Traffic Flow	COSA	27th	Culebra	Rivas	2000	2000	0.052	0.017
Traffic Flow	COSA	21st Street	Salinas	Poplar	2000	2000	0.268	0.089
Traffic Flow	COSA	Eastlawn Neighborhood Streets Phase II			2000	2000	0.435	0.145
Traffic Flow	COSA	Southlawn	Merida	Castroville	2000	2000	0.089	0.030
Traffic Flow	COSA	Madrid	Merida	Castroville Rd	2000	2000	0.025	0.008
Traffic Flow	COSA	Grandview Neighborhood Streets Ph. IIIA		(K Street)	2000	2000	0.047	0.016
Traffic Flow	COSA	Wurzbach Parkway Phase III			2000	2000	0.391	0.130
Traffic Flow	COSA	Glenmore		Kentucky	2000	2000	0.047	0.016
Traffic Flow	COSA	Villa Coronado Streets Phase IIIB			2000	2000	0.043	0.014
Traffic Flow	COSA	Arbor	Trinity	San Marcos	2000	2000	0.083	0.028
Traffic Flow	COSA	Fairdale	Rittiman	Bloomdale	2000	2000	0.323	0.108
Traffic Flow	COSA	Stahl Rd. #1038 Phase	Fairway Oaks	Bulverde	2000	2000	0.273	0.091
Traffic Flow	COSA	Babcock & Hillcrest Intersection			2000	2000	1.364	0.455
Traffic Flow	COSA	Apple Valley	Haven Valley	Ray Ellison	2000	2000	0.141	0.047
Traffic Flow	COSA	Las Palmas	Charben	26th	2000	2000	0.129	0.043
Traffic Flow	COSA	Contour Dr / El Monte St			2000	2000	1.697	0.566
Traffic Flow	COSA	Evers Rd	Glenridge	Daughtry	2000	2000	1.424	0.475
Traffic Flow	COSA	Baylor St	San Pedro Ck.	Flores St.	2000	2000	0.010	0.003
Traffic Flow	COSA	Culebra Area Streets Phase II			2000	2000	0.901	0.300
Traffic Flow	COSA	Hildebrand @ 281			2000	2000	1.040	0.347
Traffic Flow	COSA	Lone Oak/Latimer:	F St	Brice	2001	2001	0.020	0.007
Traffic Flow	COSA	Rip Rap 69-Phiic Part 3			2001	2001	0.105	0.035
Traffic Flow	COSA	Ackerman	IH 10	Dietrich	2001	2001	0.216	0.072
Traffic Flow	COSA	Carson Street	Walters	Frank	2001	2001	0.077	0.026
Traffic Flow	COSA	Starcrest	Stuntman	Jones Maltsberger	2001	2001	0.081	0.027
Traffic Flow	COSA	Bobolink 96A	Storeywood	Deneice	2001	2001	1.828	0.609
Traffic Flow	COSA	Mahncke Area Streets, Phase II			2001	2001	0.752	0.251
Traffic Flow	COSA	Creswell	Houston	Deadend	2001	2001	0.024	0.008
Traffic Flow	COSA	Thorain	Buckeye	S.P. Railroad	2001	2001	0.039	0.013
Traffic Flow	COSA	Fred. Rd	Sandoval	Woodlawn	2001	2001	1.472	0.491
Traffic Flow	COSA	Hobart Street	Acme Rd	40th St	2001	2001	0.023	0.008

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Traffic Flow	COSA	Lawton / Sw 41st Street			2001	2001	0.019	0.006
Traffic Flow	COSA	Orr	Suzette	Winkle	2001	2001	0.019	0.006
Traffic Flow	COSA	Fleming	Mayfield	Peabody	2001	2001	0.016	0.005
Traffic Flow	COSA	Evers Rd @ Wurzbach Rd Intersection			2001	2001	0.102	0.034
Traffic Flow	COSA	Capitol	Basse	San Angelo	2001	2001	0.010	0.003
Traffic Flow	COSA	Grandview Neighborhood Sts Ph IIIB	Pecan Valley	Amanda	2001	2001	0.020	0.007
Traffic Flow	COSA	Pace	Elmendorf	Brazos	2001	2001	0.139	0.046
Traffic Flow	COSA	Texas / Waverly Streets			2001	2001	0.527	0.176
Traffic Flow	COSA	Basse Road & San Pedro Intersection			2001	2001	1.625	0.542
Traffic Flow	COSA	Monterrey	36th	San Joaquin	2001	2001	0.467	0.156
Traffic Flow	COSA	Blueridge	Gen Mcmullen	27th	2001	2001	0.143	0.048
Traffic Flow	COSA	Rip Rap 69 - Ph IIC Part 3A			2001	2001	0.166	0.055
Traffic Flow	COSA	Callaghan:	Old Hwy 90	Commerce	2001	2001	1.021	0.340
Traffic Flow	COSA	Duval/Seguin:	Pierce	Walters	2001	2001	0.223	0.074
Traffic Flow	COSA	24th St:	Commerce	Culebra	2001	2001	0.236	0.079
Traffic Flow	COSA	Claremont/Eleanor/Nat alen, Ph II			2001	2001	0.175	0.058
Traffic Flow	COSA	Strech	Chavaneaux	Malley Blvd	2001	2001	0.128	0.043
Traffic Flow	COSA	Indianola	Garfield	Camargo	2001	2001	0.008	0.003
Traffic Flow	COSA	Elsmere	Michigan	Capitol	2002	2002	0.021	0.007
Traffic Flow	COSA	Arbor	Trinity	San Marcos Ph II	2002	2002	0.029	0.010
Traffic Flow	COSA	Escalon St. #1008			2002	2002	0.051	0.017
Traffic Flow	COSA	S. Flores Drn #70-70A, Ph. IIPart 3			2002	2002	11.316	3.772
Traffic Flow	COSA	Octavia #63 Phase 1			2002	2002	0.678	0.226
Traffic Flow	COSA	Leonhardt Road @ Low Water Crossing			2002	2002	0.299	0.100
Traffic Flow	COSA	St. Marys Street -	Pereida	Roosevelt	2002	2002	0.841	0.280
Traffic Flow	COSA	Lockhill-Selma:	George	Whisper Path	2003	2003	0.731	0.244
Traffic Flow	COSA	39th Street #58m, Phase II A			2003	2003	0.871	0.290
Traffic Flow	COSA	Quintana Road Drainage #64 Extension			2003	2003	0.648	0.216
Traffic Flow	COSA	S. Flores:	Durango	Franciscan	2003	2003	1.269	0.423
Traffic Flow	COSA	Monticello:	S. Gevers	Hillje	2003	2003	0.095	0.032
Traffic Flow	COSA	Higgins Road:	Nacogdoches	Stahl	2003	2003	1.551	0.517
Traffic Flow	COSA	Hi Lions 80 Mod PIII & V			2004	2004	11.176	3.725
Traffic Flow	COSA	Bee Street:	Walters	Frank	2004	2004	0.030	0.010
Traffic Flow	COSA	Aransas:	Meerscheidt	Walters	2004	2004	0.077	0.026
Traffic Flow	COSA	Flores/Breeden/Beaco n, Phase II			2004	2004	0.417	0.139
Traffic Flow	COSA	Mockert Street Area	Mockert, Forest,	(W. Lambert, Kline, Cass)	2004	2004	0.435	0.145
Traffic Flow	COSA	Pleasanton Road	Gillette	Loop 410	2004	2005	0.000	0.000
Traffic Flow	COSA	Northington	S.W. 36th	S.W. 35th	2004	2004	0.075	0.025

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Traffic Flow	COSA	Fay Street / St Joseph:	Creighton	New Laredo Hwy, Part 1	2005	2005	0.264	0.088
Traffic Flow	COSA	Fay Street / St. Joseph:	Creighton	New Laredo Hwy, Part 2	2005	2005	0.000	0.000
Traffic Flow	COSA	Belgium:	Picarde	Sbc Parkway	2005	2005	0.137	0.046
Traffic Flow	COSA	El Monte	Blanco	San Pedro, Phase II	2005	2005	0.045	0.015
Traffic Flow	COSA	Lanark Drainage #92A, Phase 1			2005	2006	0.383	0.128
Traffic Flow	COSA	Larkspur	West Ave	Baltic	2005	2006	0.260	0.087
Traffic Flow	COSA	Sunset Ph I	Jones Maltsberger	Teak	2005	2006	1.014	0.338
Traffic Flow	COSA	Alamo	Durango	Cedar	2005	2006	0.328	0.109
Traffic Flow	COSA	Wurzbach Rd @ IH 10 Intersection			2005	2006	2.128	0.709
Traffic Flow	COSA	St. Marys Street	Alamo	Pereida	2005	2006	0.202	0.067
Traffic Flow	COSA	Ansley Blvd Drainage #1091			2006	TBDL	0.139	0.046
Traffic Flow	COSA	Duke Area Streets, Phase I			2006	2006	0.275	0.092
Traffic Flow	COSA	Culebra Area Streets Phase IV			2006	2006	0.288	0.096
Traffic Flow	COSA	Howard Drainage	Wildwood	El Monte	2006	2006	0.018	0.006
Traffic Flow	COSA	Ave Maria Drainage			2006	TBDL	0.056	0.019
Traffic Flow	COSA	Goliad Rd	Pecan Valley	Military Drive	2006	TBDL	0.329	0.110
Traffic Flow	COSA	W. Craig	Elmendorf	Josephine Tobin	2006	TBDL	0.027	0.009
Traffic Flow	COSA	Woodlawn Ave:	San Antonio	Lake	2006	TBDL	0.199	0.066
Traffic Flow	COSA	Ozark	Erskine	Williamsburg	2006	2006	0.064	0.021
Traffic Flow	COSA	Florida	IH 37	St Marys	2006	TBDL	0.380	0.127
Traffic Flow	COSA	Sunset Ph II	Teak	Broadway	2006	TBDL	0.538	0.179
Traffic Flow	COSA	Woodlawn	Bandera	Maiden	2006	2008	0.114	0.038
Traffic Flow	COSA	Semlinger Road	Lord	Rigsby	2006	2005	0.434	0.145
Traffic Flow	COSA	Stahl Road	O'connor	Judson	2007	2008	1.147	0.382
Traffic Flow	COSA	Marbach Phase I	Military	Pinn	2007	TBDL	0.654	0.218
Traffic Flow	COSA	Redland Road Improvements	Redland Woods	Jones Maltsberger	2007	2006	2.516	0.839
Traffic Flow	Bexar Co.	Shaenfield Road	Loop 1604	FM 1560	2006	2008	0.180	0.060
Traffic Flow	Bexar Co.	Braun Road	Loop 1604	FM 1560	2004	2007	1.600	0.530
Traffic Flow	Bexar Co.	Borgfeld Road	Hwy 281	Timberline	2004	2007	2.750	0.920
Traffic Flow	Bexar Co.	Bulverde Road	Smithson Valley	Hwy 281	2006	2008	0.300	0.100
Traffic Flow	Bexar Co.	Foster Road	I-10	Binz-Engleman	2004	2007	2.160	0.720
Traffic Flow	Bexar Co.	Kriewald Road	Hwy 90	Pue Road	2006	2007	0.140	0.050
Traffic Flow	Bexar Co.	Lakeview Drive	Woodlake Parkway	Foster Road	2006	2005	0.460	0.150
Traffic Flow Traffic Flow	Bexar Co.	Pue Road Smith Road	Kriewald Road	Sunset Place	2006	2007	0.660	0.220
Traffic Flow	Bexar Co.	Wiseman Road	Hwy 16 Loop 1604 west	Talley Road.	2006 2004	2007	0.900 5.350	0.300 1.780
Traffic Flow	Bexar Co. Bexar Co.	Woodlake Parkway	Binz-Engleman	FM 78	2004	2006	1.580	0.530
Traffic Flow	Bexar Co.	Applewhite Road	Watson Road	Loop 1604.	2004	2007	9.473	3.158
TMS	TxDOT	IH 35	FM 1976 (Walzem Road)	New Braunfels Ave.	1999	1999	151.37	50.46
TMS	TxDOT	US 90	0.8 Mi W. of IH 410	Loop 353 Nogalitos	1999	1999	89.898	29.966
TMS	TxDOT	IH 35	Guadalupe County Line NE	1.77 KM N of FM 1976 (Frat Interchange)	2000	2000	41.339	13.780
TMS	TxDOT	IH 36	1.77 KM N. of FM 1976 (Fratt int.)	FM 1976 (Walzem)	2000	2000	30.396	10.132

Project Type	Agency	Project Name	From	То	Let Date	Compl. Date	VOC (lbs/day)	NOx (lbs/day)
TMS	TxDOT	IH 37	Loop 13	1.3 Mi S of US 181	2000	2000	9.089	3.030
TMS	TxDOT	IH 410	Callaghan Road	Fredericksburg Road	2000	2000	37.141	12.380
TMS	TxDOT	Loop 1604	0.8 KM W of Babcock Road	SH 16(N)	2000	2000	14.741	4.914
ITS	TxDOT	Loop 1604	On N and S frontage roads FM 1535, E	Bitters Rd	2001	2001	6.079	2.026
ITS	TxDOT	Loop 1604	3.21 KM E. of US 281 N.	1.61 KMN of FM 2252	1999	1999	52.434	17.478
ITS	TxDOT	US 281	0.6 Mi N of Loop 1604	2.5 Mi N of Loop 1604	2004	TBDL	26.445	8.815
TMS	TxDOT	410 Upgrade to 10 lanes	Ingram Road	Callaghan Road	2006	TBDL	103.350	34.449
ITS	COSA	Houston - Walters To Onslow	Onslow	New Braunfels	2003	2003	2.085	0.695

TBDL: To Be Determine Later

Major Permits which could impact San Antonio attainment status

Principal Name (Plant)	Location	County	Permit Number	Type of Facility	Mailed Date	Status	Operation Start Date	Net Capacity	Air Contaminants	NOx Emission Rate
CPS (Spruce2)	9599 Gardner Road, San Antonio, Texas	Bexar	70492, 103042	Powder River Basin (PRB) Coal Power Plant	11/24/2003	ISSUED	2009	750 MW	VOC, NOx, CO and PM	0.05
Chemical Line	3550 APG Lane, New Braunfels, Texas, 78132	Comal	not submitted	Portland Cement Manufacturing Facility	not submitted	not submitted	?	?	VOC, NOx, CO and PM	
TXI OPERATIONS LP	Hunter Cement Plant located at 7781 FM 1102, New Braunfels, Texas	Comal	5933, 5933A, 5933D, CS0018B, PSDTX63M3	Dry-Process Preheater/Precalciner Kiln and Finish Mill	2/9/2006	PENDING	2009	1.25 million tons of klinker	VOC, NOx, CO and PM	
CEMEX CEMENT OF TEXAS LP	2580 Wald Road, New Braunfels, Texas 78132- 4983	Comal	6048	Portland Cement Manufacturing Facility	6/9/2005	COMPLETED	2008 or later	1.25 million tons of klinker	VOC, NOx, CO and PM	
The Calhoun County Navigation District (E S Joslin 2)	135 County Road 319, Point Comfort, Texas	Calhoun	45586, PSDTX1055	Coal Power Plant	2/28/2006	PENDING	2009	300 MW	VOC, NOx, CO and PM	0.07
Formosa Plastics Corp., TX	P. O. Box 700, Point Comfort, Texas 77978	Calhoun	76305, PSDTX1058	Specialty PVC (polyvinyl chloride) Plant	5/31/2005	PENDING	2009	300 MW	VOC, NOx, and CO	0.07
Sandow 5 (replaces ALCOA units)	Rockdale	Milan	48437	Coal Power Plant	11/1/2002	ISSUED	2007	434 MW	VOC, NOx, CO and PM	
Oak Grove Mgmt. Co. LP (TXU)	12 miles north of Franklin, Texas, off of FM 979, Franklin	Robertson	76474, P1056	Lignite Coal Power Plant	7/27/2005	PENDING	2009	1,600 MW	VOC, NOx, CO and PM	0.07
Sandy Creek En. Assocs., LP	Rattlesnake Road, Riesel	McLennan	70861, P1039	PRB Coal Power Plant	7/13/2005	PENDING	2008	600 MW	VOC, NOx, CO and PM	0.05
Twin Oaks Power III, LP (Sempra)	eight miles north of Calvert on Highway 6 in Calvert	Robertson	76381, P1054	Lignite Coal Power Plant	5/6/2005	PENDING	2010	600 MW	VOC, NOx, CO and PM	0.08
Safeguard Security Services, Ltd.	5926 Corridor Parkway, Schertz	Guadalupe	74195	Fiberglass	3/6/2006	PENDING	2007 ?		VOC and PM	
City of Victoria (assumed at Joslin 2 emissions)		Victoria	No permit yet	Powder River Basin (PRB) Coal Power Plant	not submitted	Unlikely	Already Constructed	?	VOC, NOx, CO and PM	

In the 4 county EAC Region

Combined Impact

Principal Name (Plant)	Modeled in 2007 or 2012 Base Case	VOC Emissions (tons/day)	NOx Emissions (tons/day)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)
CPS (Spruce2)	YES	0.07	5.93	?	0.200	0.168						
Chemical Line	NO	?	?	?	?	?						
TXI OPERATIONS LP	NO	0.17	4.20	2.683	0.009	0.042						
CEMEX CEMENT OF TEXAS LP	NO	Emissions are offset	Emissions are offset	0.000	0.000	0.000						
The Calhoun County Navigation District (E S Joslin 2)	NO	0.18	2.23									
Formosa Plastics Corp., TX	NO	0.36	4.03							2.702	0.039	0.074
Sandow 5 (replaces ALCOA units)	NO	0.36	7.10				0.550	0.000	0.004	2.102	0.000	0.074
Oak Grove Mgmt. Co. LP (TXU)	NO	1.13	20.64	0.117	0.008	0.009	0.553	0.030	0.031			
Sandy Creek En. Assocs., LP	NO	0.35	6.88									
Twin Oaks Power III, LP (Sempra)	NO	0.36	8.16									
Safeguard Security Services, Ltd.	NO	not a significant source?	0.00									
City of Victoria (assumed at Joslin 2 emissions)	NO	0.18	2.23	?	?	?						

Principal Name (Plant)	Location	County	Permit Number	Type of Facility	Mailed Date	Status	Date of construction	Net Capacity	Air Contaminants	
Coleto Creek	Fannin	Goliad	No permit yet	PRB Coal Power Plant	not submitted	not submitted	After 2007	?	VOC, NOx, CO and PM	
Big Brown 3	Fairfield	Freestone	78759	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Lake Creek 3	Riesel	McLennan	78751	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Martin Lake 4	Tatum	Rusk	78750	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Monticello 4	Mount Pleasant	Titus	78744	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Morgan Creek 7	Colorado City	Mitchell	78761	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Tradinghouse 3	Waco	McLennan	78762	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Tradinghouse 4	Waco	McLennan	78762	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	
Valley 4	Savoy	Fannin	78763	Powder River Basin (PRB) Coal Power Plant	4/20/2006	PENDING	2009	800 MW	VOC, NOx, CO and PM	

Principal Name (Plant)	Modeled in 2007 or 2012 Base Case	VOC Emissions (tons/day)	NOx Emissions (tons/day)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)
Coleto Creek	NO	0.21	12.76									
Big Brown 3	NO	0.46?	6.41?									
Lake Creek 3	NO	0.46?	6.41?									
Martin Lake 4	NO	0.46?	6.41?									
Monticello 4	NO	0.46?	6.41?	0.877	0.010	0.011						
Morgan Creek 7	NO	0.46?	6.41?									
Tradinghouse 3	NO	0.46?	6.41?									
Tradinghouse 4	NO	0.46?	6.41?									
Valley 4	NO	0.46?	6.41?									
For sources that are not modeled (i.e. not including CPS)		VOC Emissions (tons/day)	NOx Emissions (tons/day)	Maximum 8- hour Ozone Impact	Impact near Monitors (C23)	Impact near Monitors (C58)						
All New Sources (besides TXI)		6.81	115.31	6.925	0.040	0.042						
All New Sources		6.98	119.51	6.935	0.050	0.085						

A. Control Measure	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
30 San Antonio, TX (Effective date of	nonattainment designation deferred)					(- 1 = +, ++)	
Degreasing controls	Degreasing equipment controls outline methods for reduction of emissions from solvent evaporation; reductions achieved through use of efficient equipment, including: batch-loaded cold cleaners, open-top vapor degreasers, conveyorized (in-line) degreasers, air-tight, and airless cleaning systems.	Measures are currently in effect. State rule effecting implementation: TCEQ has revised Chapter 115, Subchapter E, Solvent-Using Processes, Division 1, Degreasing Processes, to extend the control requirements to the four counties in the EAC region. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg	by Dec. 2005	85 %			http://info.sos.state.tx.us/pls/pub/read tac\$ext.ViewTAC?tac_view=5&ti=30& pt=1&ch=115&sch=E÷=1&rl=Y
Stage I Vapor Recovery (At the request of local governments, TCEQ lowered the exemption level for facilities subject to Stage I vapor recovery controls from 125,000 gal/mo to 25,000 gal/mo)	Equipment captures stored tank vapors by a vapor return hose and are returns it to the refueling truck. This measure is defined in the TCEQ revised Chapter 115, subchapter C, Volatile Organic Compound Transfer Operations, Division 2, Filling of Gasoline Storage Vessels (Stage I) for Motor Vehcle Fuel Dispensing Facilities. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.7)	Measure is currently in effect.	by Dec. 2005	5.81 TPD	0 TPD		http://info.sos.state.tx.us/pls/pub/read tac\$ext.TacPage?sl=R&app=9&p_dir =&p_rloc=&p_tloc=&p_ploc=&pg=1&p_ tac=&ti=30&pt=1&ch=115&rl=229
Energy efficiency / Renewable energy projectsTCEQ	Projects that incorporate renewable sources of energy or increase energy efficiency by equipment retrofits, etc.		by Dec. 2005 for the measures that were given SIP credit	0 TPD	0.06 TPD		https://txspace.tamu.edu/bitstream/19 69.1/2055/1/ESL-TR-04-05-01.pdf
Transportation emission reduction measures (TERMs) (traffic signalization & intelligent transportation systems)	Modeled emission reductions. TERM projects include signalization, ITS, public transit, bike/pedestrian travel, traffic flow improvements, & ITS.	Final Rule was published on August 19, 2005. Projects are scheduled for completion between 1999 and 2007.	by Dec 2005 2007	0.92 TPD	0.32 TPD		5th Semi-Annual Reort (Appd. E) http://www.aacog.com/cap/2biannual/ 062505_5thSemiAnnual-Final_Jun30- 05.pdf
Transportation Demand Management (TDM) (rideshare, telecommuting, flex time, compressed workweek & staggered hours)	This is a local non-enforceable voluntary measure aimed at reducing emissions by lowering the number of SOVs and the volume of vehicles during peak hours SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.5)	Reductions estimated through 2002 survey conducted by AACOG. Not modeled in attainment demonstration.	by Dec. 2005	0.03 TPD - Estimate Not Modeled	0.026 TPD - Estimate Not Modeled		
Alternative Fuel Vehicles	Un-modeled measures with no SIP credit. AFVs offer reduced emissions through cleaner burning fuels or electricity. The San Antonio EAC did not receive SIP credit for emission reductions in this category. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.6)	Voluntary measure with no SIP credit. Currently implemented on a voluntary basis.	On-going	62 lb/day - Estimate Not Modeled	689 lb/day - Estimate Not Modeled		
Lawnmower Recycling Program (rebate program) replacing gas-powered lawn equipment with electric	Un-modeled measures with no SIP credit; Gasoline-powered lawnmowers contribute a significant amount of NO, VOCs, and PM to the atmosphere. A lawnmower "buy back" program was initiated in 1998 to encourage the replacement of gas-powered mowers with electric. The San Antonio EAC did not receive SIP credit for emission reductions in this category. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.6)	Voluntary measure with no SIP credit. Currently implemented on a voluntary basis.	by Dec. 2005	114.24 lb/ozone season day - Estimate Not Modeled	4.78 lb/ozone season day - Estimate Not Modeled		
Texas Emission Reduction Program (TERP)provides financial incentives to repower, retrofit or replace on & nonroad diesel engines with cleaner equipment	The goals for TERP as set forth in SB5 are to provide financial incentives to repower, retrofit or replace on and nonroad diesel engines with cleaner equipment; the program promises a 2 tpd NOx reduction from modifications in the EAC region.	Measure is in effect; the 2 tpd reductions will be met with the FY '02-'04, FY2005 1st round, and FY2005 2nd round projects selected by the TCEQ.	by Dec. 31, 2005	0 TPD	2 TPD	TCEQ committed funding from TERP for 2.5 tpd of NOx reductions;& 2 tpd committed by EAC signatories.	FY 2002-2004 projects are listed by company on the TCEQ website: http://www.tceq.state.tx.us/assets/public/implementation/air/terp/erig/area_listing.xls. FY 2005 1st round list by company: http://www.tceq.state.tx.us/assets/public/implementation/air/terp/erig/2005 1st round selections area.xls. FY 2005 2nd round list by company: http://www.tceq.state.tx.us/assets/public/implementation/air/terp/erig/FY05R 2_recommended_grants_es.xls
Portable Fuel Container Rule	State Rule establishes design criteria for "no-spill" portable fuel containers based in large part on the CARB standards. Effective December 31, 2005, these new rules will limit the type of portable fuel containers and portable. fuel container spouts sold, offered for sale, manufactured, and/or distributed in Texas. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.8)	Rule is currently in affect. All affected persons in all counties within the State of Texas shall be in compliance with the provisions of this division as soon as practicable, but no later than December 31, 2005.	by Dec. 31, 2005	45 %			http://info.sos.state.tx.us/pls/pub/read tac\$ext.TacPage?sl=R&app=9&p dir =&p_rloc=&p_tloc=&p_ploc=&pg=1&p _tac=&ti=30&pt=1&ch=115&rl=629

A. Control Measure	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
	The idling restrictions will lower NOx emissions from both gasoline powered and diesel-powered motor vehicles in the affected areas.		by Dec. 31, 2005				IdleAire website http://www.idleaire.com/locations/IA ATE_active/
Windshield Wiper Fluid	EPA calculated VOC reductions from this national consumer products rule to be 20 percent and allowed states to take this emission reduction credit in their SIPS. Prior to EPA's issuance of its national rule, Texas adopted a consumer products rule that limits automotive windshield washer fluid to 23.5 weight-percent VOC. Due to the more stringent Texas formulation, Texas takes credit for the difference. This measure was not modeled. SIP docket ID: R06-OAR-2005-TX-0010-0005 (pg 5.10)	Rule is currently in effect	by Dec. 31, 2005				http://info.sos.state.tx.us/pls/pub/read tac\$ext.ViewTAC?tac_view=5&ti=30& pt=1&ch=115&sch=G÷=1&rl=Y
Public education programmain goal is to familiarize the public with actions they can take to improve the air quality	improve the air quality This category includes:	No attempt has been made to quantify the air quality impacts of these public outreach projects, however this programadds additional assurance that the SAER will achieve the goals of the EAC program.	by Dec. 31, 2005				Web pages for public viewing, materials for distribution, targeted audiences, distribution numbers, evens, media spots, and business participation are listed in appendix B of the 6th Semi-Annual report for San Antonio.

Comments: Within the public education program, the Adopt a School Bus program is projected to replace 275 older buses over the next three years, reducing emissions of NOx by 110 tpd.

A projected replacement of 275 school buses for the San Antonio area over the course of three school fiscal years could realize a reduction of approximately 110 tons/year of NOx. There could be a combination of replacement and retrofitting of buses to achieve NOx and PM reductions, depending on technology available and the availability of low-sulfur fuel. SIP docket ID: R06-OAR-2005-TX-0010-0016

mission Inventory Category	Geo-coded in Photochemical Model	Geo-Coded in TransCAD	Surrogate Factor	Source of Surrogate Factor	Completed	Geo-Codeo
rport and Military						
Military Bases		X	Military Base locations			
San Antonio International airport - Ground emissions		Х	Location of SAIA	-	Х	Х
San Antonio International airport - Elevated Aircraft		X	At equal dist. from SAIA (horizontal and vertical)	Information on runway patterns of specific aircraft traffic was from the San Antonio Department of Aviation	X	Х
Small Airports		X	Small Airport Locations	TransCAD GIS cover and aerial images.	Х	Х
rea						
Agricultural Fertilizer		X	Crop Production by Type for each 4 km grid		Х	
Agricultural Pesticide Application		Х	Crop Production by Type for each 4 km grid		Х	
Architectural Surface Coating	Х		Population			
Asphalt Paving		Х				
Asphalt Roofing	Х		Population		Х	Х
Auto Body Refinishing		Х	Auto Body Shop Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.	Х	Х
Bakeries		Х	Bakeries and Grocery Store Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.	Х	Х
Breweries		Х	Breweries Location	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
Consumer and Commercial Solvents	Х		Population			
Catastrophic - Accidental Releases						
Commercial Cooking						
Degreasing		Х	Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
Diesel Truck Idling		Х	Location of Truck Stops, Rest Stops, and Picnic Areas	Texas official travel map and aerial images.	Х	Х
Dry Cleaners		Х	Dry Cleaners Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
Fires	Х				Х	
Gas Cans	Х		Population		Х	Х
Gasoline Distribution		Х	Gas Station Locations	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.	Х	Х
Generators	Х		Employment		Х	Х
Graphic Arts		Х	Graphic Arts Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.	Х	Х
Livestock and Poultry Feed Operations						
Municipal Waste Landfills		Х	Landfill Locations	Aerial Photography and Alamo Area Council of Governments, 2003. "Closed Landfill Inventory", San Antonio, Tx. Available online: http://www.aacog.com/cli/default.htm	Х	Х
Municipal Waste Treatment		Х	Waste Water Facilities	Environmental Protection Agency, May 21, 2006. "Facility Registry System (FRS)", Available online: http://www.epa.gov/enviro/html/fii/index.html	X	Х
Oil and Gas Wells		Х	Oil and Gas Wells	Texas Railroad Commission, September 2005. Digital Map Information. Austin, Texas.	Х	Х
Paving Markings						
Gasoline Pipelines	Х				Х	Х
Small Stationary Fossil Fuel Use	Х		Population and Employment			
Surface Coating		Х	Surface Coating Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.	Х	Х

Emission Inventory Category	Geo-coded in Photochemical Model	Geo-Coded in TransCAD	Surrogate Factor	Source of Surrogate Factor	Completed	Geo-Coded
rea (continued)						
Underground Storage Tanks		X	Underground Storage Tanks Locations	Texas Commission on Environmental Quality, November 2005. "UST and AST Database files". Austin, TX.	Х	Х
Above Ground Storage Tanks		X	Above ground Storage Tanks Locations	Texas Commission on Environmental Quality, November 2005. "UST and AST Database files". Austin, TX.	X	Х
Underground storage Tank Remediation		X	Tanks that were removed from the ground	Texas Commission on Environmental Quality, November 2005. "UST and AST Database files". Austin, TX.	X	X
Wineries		X	Wineries locations	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
on-Road						
Agricultural Equipment		Χ	Crop Production by Type for each 4 km grid			
Boating		Х	Location of Accessible Lakes	Acres were calculated using TransCAD or from the Texas Parks and Wildlife (last accessed June 1, 2005). Texas Lake Finder. Available on-line: http://www.tpwd.state.tx.us/fish/infish/regions/index.phtml	Х	Х
Commercial Equipment		Х	Commercial Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
Construction Equipment		Х	Utility and Road Construction, and Building Permits Location			
Industrial Equipment		Х	Industrial Employment	Texas Workforce Commission, 2005, Employment Data for 3rd quarter 2004. Austin, Texas.		
Landfill Equipment		X	Landfill Locations	Aerial Photography and Alamo Area Council of Governments, 2003. "Closed Landfill Inventory", San Antonio, Tx. Available online: http://www.aacog.com/cli/default.htm	X	X
Commercial Land and Garden Equipment	X		Population		X	X
Golf Courses Land and Garden Equipment		X	Golf Courses	Aerial Photography, District Appraisal Data, and Telephone Survey	X	Х
Government Land and Garden Equipment	Х		Government agencies boundaries		Х	Х
Residential Land and Garden Equipment	Х		Population		Х	Х
Public Schools Land and Garden Equipment		X	Public Schools Locations	National Center for Education Statistics, 2002. Available online: http://nces.ed.gov/ (20 July 2004)	X	Х
University Land and Garden Equipment		X	UniversityCampuses Locations	-	Χ	Х
Mining Equipment		X	Mining Location	-	Х	Х
Quarry Equipment		X	Quarry Location	U.S. Department of Labor: Mine Safety and Health Administration (MSHA), (last accessed June 9. 2005), MSHA's Data Retrieval System. Available online: "http://www.msha.gov/drs/drshome.htm	X	Х
Railroad Locomotives		X	Railroad lines			
Railroad Maintenance Equipment		X	Railroad Siddings		Χ	
Recreational Equipment	Х				Х	Х
n-Road						
On-Road Emissions		X	Link Base Network Volumes			
oint						
Electric Generating Units			Geo-coo	ded by TCEQ		
Non-Electric Generating Units			Geo-coo	ded by TCEQ		
Minor Point Sources			Geo-coo	ded by TCEQ		
iogenic						
Biogenic Emissions			Geo-coo	ded by TCEQ	Х	Х